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PERSONAL.

Mr. Philippe Bunau-Varila, former Engineer-in-Chief of the Panama Canal, is now in this country.

Mr. J. Hastings Howland, Civil Engineer, of Hilo, H. I., has entered the employ of the Puna Sugar Co., of Hawaii.

Mr. A. K. Williams, of Gallipolis, has been appoined City Engineer of Wellston, O., succeeding Mr. Henry Laviers, resigned.

Mr. C. A. Sias, City Engineer of Galveston, Tex., has resigned and has been appointed Assistant Sea Wall Engineer.

Mr. George S. Davison has been elected Secretary and Consulting Engineer of the Pennsylvania Water Co., of Wilkinsburg, Pa.

Mr. W. C. Hawley, formerly Superintendent of the water-works at Atlantic City, N. J., has been appointed Superintendent of that company.

Mr. G. J. Bury, Assistant General Superintendent of the Lake Superior Division of the Canadian Pacific Ry., has been appointed General Superintendent of that division.

Mr. Miles Kirk Burton, General Manager and Secretary of the Mersey Docks & Harbor Board in Liverpool, England, is visiting Boston to investigate the dock system there.

Mr. H. Fay Allen, of the Engineering Department of the New York, Chicago & St. Louis R. R., with headquarters at Cleveland, O., was recently married to Miss Mary Irene Williams of that city.

Mr. James W. Beardsley, M. Am. Soc. C. E., U. S. Assistant Engineer at Detroit, Mich., has been appointed City Engineer of Manila and Consulting Engineer to the Philippine Commission.

Mr. Thomas Maben, of Glasgow, Scotland, Chemist for the firm of Parke, Davis & Co., of London, is now in New York on his way to Detroit, Mich., to inspect the company's laboratories in that city.

Mr. H. H. Filey, formerly Chief Engineer in charge of the construction of the Mexican National Ry., has been appointed Superintendent of Construction of the Guanajuato Power & Electric Co., of Guanajuato, Mex.

Admiral John D. Ford, U. S. N., Naval Inspector of Machinery at Sparrow's Point, Md., has been retired on account of age. He entered the navy in 1862, and was Fleet Engineer with Admiral Dewey at Manila Bay.

Mr. W. R. W. Griffin, Chief Engineer and Superintendent of Motive Power of the Lake Shore Electric R. R. of Cleveland, O., has resigned to become Electrician and Superintendent of Construction of the Rochester & Eastern Ry. of Rochester, N. Y.

Mr. E. H. McHenry, M. Am. Soc. C. E., for the past several years Chief Engineer of the Northern Pacific R. R., will become Chief Engineer of the Canadian Pacific Ry. on June 1. Mr. McHenry has just returned from a six months' trip in China and the East.

Mr. William C. Armstrong has been appointed Bridge Engineer of the Chicago & Northwestern R. R., with headquarters at Chicago, Ill., succeeding Mr. F. H. Bainbridge, whose present address is care of the Western Expanded Metal Co., Spreckels Building, San Francisco, Cal.

Mr. G. M. Paree has been appointed Landscape Engineer of the New York Central & Hudson River R. R. from New York to Buffalo. He has heretofore been Assistant Supervisor of Track at Syracuse, and is succeeded in that position by Mr. G. C. Upson, formerly stationed at Rochester, N. Y.

Mr. S. W. Hayes, M. Am. Soc. C. E., has taken service with Westinghouse, Church, Kerr & Co., and will have charge of electric railway construction, with address at Seneca Falls, N. Y. He will also retain the position of Chief Engineer of the Jamestown, Chautauqua & Lake Erie Ry. until the completion of its Westfield extension.

Mr. Frederick L. Ford has been appointed City Engineer of Hartford, Conn., to succeed Mr. Charles H. Bunce, to take effect on June 1. The present incumbent has held office for the past 30 years, with the exception of brief intervals. Mr. Ford has been in the city engineering department for the past six years and is a graduate of the Sheffield Scientific School of Yale University.

Mr. Henry Goldmark, M. Am. Soc. C. E., has recently been appointed to the Engineering staff of the Canadian Pacific Ry., in charge of the construction of the new locomotive and car shops in Montreal, Que. Mr. Goldmark is about 45 years of age, and is a graduate of Harvard University, 1878, and of the Royal Polytechnic School of Hanover, Germany, 1880. He has been connected with various railways, and in 1891 was appointed Engineer for the buildings of the World's Fair, Chicago. Upon completing his duties in connection with the exposition he took up private practice in Chicago and continued until 1897, when he was made Assistant Engineer for the Board of Engineers on Deep Waterways, between the Great Lakes and the sea. He was Resident Engineer in charge of the building of the bridge across the Missouri River at Atchison, Kan., in 1900.

OBITUARY

Capt. John Ellis, of Kewanee, Ill., President of the Combination Bridge Co., died in Sioux City, Ia., on May 16, aged 76 years.

Mr. Adelbert Prentice, Civil Engineer, died at Willard, N. Y., on May 21, aged 60 years. He was a graduate of Cornell University.

Mr. John Philip Miller, of Chicago, Ill., a pioneer builder of water-works in the Northwest, died at his home in that city on May 21.

Mr. William C. Brandegee, Civil Engineer, employed by the Central R. R. of New Jersey, was struck by a train and killed at Communipaw Ave., Jersey City, N. J., on May 24, while superintending the laying of new track on that road.

Mr. Oscar Whitford, Civil and Mining Engineer, died at Saratoga, N. Y., on May 23. Mr. Whitford had been at different times professionally employed by the United States and Chilean governments, and in mining enterprises in California, Mexico, Idaho and Colorado.

Mr. James F. Mann, formerly President and Manager of the Utica & Mohawk R. R. of Utica, N. Y., died in that city last week. Mr. Mann was one of the organizers of the Wood & Mann Steam Engine Co., and continued with the company until 1885, when he became interested in street railway work.

Mr. James Dickson, Civil Engineer, of Scranton, Pa., was drawn into the culm conveyors at the Florence washery, Florence, Pa., and instantly killed on May 20. Mr. Dickson was a member of the Erie Co.'s engineer corps, and was one of those pressed into service to operate the washery during the miner's strike. It was while performing the work of one of the strikers that he met his death.

Mr. Hollis H. Hunnewell, of Wellesley, Mass., died at his residence in that town on May 20, aged 92 years. Mr. Hunnewell was a well-known figure in the financial circles of New England, and was largely interested in the construction of many of the Westend railroads. For many years he was Vice-President of the Michigan Central and a director of the Illinois, the Hannibal & St. Joseph, the St. Joseph & Council Bluffs, the Chicago, Dubuque & Minnesota, the Wisconsin Valley, the Old Colony and several other roads.

Mr. Gottlieb Geuder, a former Civil Engineer, died at his home in Cleveland, O., on May 15, aged 49 years. He was a graduate of the Rensselaer Polytechnic Institute, class of 1876. Upon leaving college he received a position on the Lake Shore road, and was later appointed Civil Engineer by the Government, and assigned to duty along the Mississippi River. Afterward he became connected with the Brown Hoisting Machine Co. In 1886, Mr. Geuder retired from engineering and associated himself with E. G. Krause & Co., in the coal and mining business, with which company he was until recently connected.

Mr. Eugene C. Spalding, Vice-President of the Atlanta, Knoxville & Northern Ry., died at his home in Atlanta, Ga., on May 25. Mr. Spalding was born in 1862, and had been in railway service since 1878. In 1894 he was appointed Receiver of the Atlantic & Florida Ry., and in 1896 Receiver of the Marietta & North Georgia Ry. When this latter company was reorganized as the Atlanta, Knoxville & Northern, Mr. Spalding became Vice-President, and so remained till his death. He was also President and General Manager of the Southern Iron Car Line, and General Manager of the Southern Railway Equipment Co., the Express Coal Line, the Southeastern Line, and the Georgia Car Co., these various companies controlling about 12,000 freight cars.

Capt. George Cowie, U. S. N., was struck by a train at the Milton St. crossing of the Pennsylvania R. R. in Rahway, N. J., on May 22, and died from the effect of his injuries the following morning. He was standing on a track waiting for a train to pass in the opposite direction, and being slightly deaf, as a result of gun concussions, did not hear the approach of the express train on that track. Captain Cowie was born in Scotland in 1846, and entered the Navy as Acting Third Assistant Engineer in 1864. He was honorably discharged in 1867, and in 1870 was commissioned Second Assistant Engineer. In 1892 he was advanced to the rank of Chief Engineer. He served through the Spanish-American War, and was on duty on the battleship "Indiana" during the destruction of Admiral Cervera's fleet off Santiago, Cuba. For his services in that engagement he was advanced three numbers.

ENGINEERING SOCIETIES.

COMING MEETINGS.

AMERICAN WATER-WORKS ASSOCIATION.
June 10. Annual convention at Chicago, Ill. Secy., Peter Milne, Bennett Bldg., New York.
AMERICAN SOCIETY OF HEATING AND VENTILATING ENGINEERS.
June 16. Summer meeting at Atlantic City, N. J. Secy., W. M. Mackay, New York.
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
June 18, 19, 20, 21. Summer meeting at Great Barrington, Mass. Secy., R. W. Pope, 26 Cortlandt St., New York.
AMERICAN FOUNDRYMEN'S ASSOCIATION.
June 17. Annual convention at Boston, Mass. Secy., Richard Moldenke, New York.
MASTER CAR BUILDERS' ASSOCIATION.
June 18. Annual convention at Saratoga, N. Y. Secy., J. W. Taylor, Chicago.
AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION.
June 23. Annual convention at Saratoga, N. Y. Secy., J. W. Taylor, Chicago.
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.
June 28 to July 3. Annual meeting at Pittsburg, Pa. Secy., L. O. Howard, Washington, D. C.

IRON AND STEEL INSTITUTE.—The council of the Institute has awarded the Andrew Carnegie gold medal for 1902 to Dr. J. A. Mathews, of New York, for research carried out by him as a holder of an Andrew Carnegie Research scholarship during the past year. Dr. Mathews is the first one to receive this medal. He has held a fellowship at Columbia College, New York, and has there carried on research work under Prof. H. M. Howe. The council has also awarded six Carnegie Research scholarships, each of the value of £100, for the coming year. The successful candidates are: Octave Boudouard, College of France, Paris, France; Wm. Campbell, Columbia College, New York; Alfred Campion, Cooper's Hill, Scotland; Percy Longmuir, Manchester, England; Ernest Schott, Royal Testing Institution at Charlottenburg, Germany; F. H. Wigham, Wakefield, England.

CHEMICAL SOCIETIES.—Several papers of engineering interest were presented before a joint meeting of the New York section of the Society of Chemical Industry, the American Chemical Society, the Verein Deutscher Chemiker, and the Chemists' Club at the house of the latter organization, 108 W. 55th St., New York, on May 23. Mr. C. B. Schultz spoke on "The Goldschmidt Aluminothermic Inventions," giving demonstrations of some applications. He reduced iron and manganese from their oxides, cast-welded two pieces of tubing together, cast-welded a cast-iron lug to a steel plate, and finally cast-welded together the ends of two girder rails. The striking feature of all these experiments was that only a few seconds were required to develop a very large amount of heat—in the last experiment, for instance, something like a hundred pounds of cast iron had flowed out of the crucible within about a minute from touching a match to the mass. This same experiment was made a little more interesting than intended by a weak point in the mold, which let the white-hot metal out on the wooden floor. The following two papers were "On the Analysis of Portland Cement," by Stanger and Blount, and "Further Notes on Cement Testing," by Prof. S. I. Peckham. Messrs. Stanger and Blount, cement experts to the British Admiralty, raised in their paper a strong protest against the proposed action of the Society of Chemical Industry in establishing a uniform procedure for chemical analysis of Portland cements. Besides maintaining that any code of procedure of that kind was to be deprecated as interfering with the chemists' freedom of thought and action, they criticized a number of the detail matters contained in the proposed method. The other side of the question was defended in discussion by Mr. Clifford Richardson, Dr. W. F. Hillebrand, Dr. Chas. F. McKenna and others. The paper of Professor Peckham also touched some points connected with the proposed procedure.

An interesting set of tables was presented by Messrs. Stanger and Blount, giving the results of a large number of analyses of all the best British Portlands, many Continental and some European Portlands. The table showed that insoluble matter, which is taken as the criterion of excellence of manufacture, and the determination of which was one of the main points in the paper, is present in very much smaller amounts in cements made by the rotary-kiln method; an excellent average for the old-style kiln cements is 1.00% insoluble matter, while those made in rotary kilns average 0.25 to 0.40%. The last paper read was a short communication of Mr. D. Woodman on "A Chemical Method for Detecting Defective Welding in Boiler Tubes." Several pieces of boiler tubes having been submitted to him for test, some of them from tubes that had corroded and failed rapidly, the others from satisfactory tubes, he had found practically identical material in both. It had then been suggested that defective welding might be the cause of the trouble, and this was found to be the case. The pieces were laid in a 10% solution of sulphuric acid; the sound tubes were attacked uniformly all around, simply showing the weld as an etched line, but the other tubes were eaten away rapidly on the line of the weld, and formed there a deep slit or crack.

The death of Prof. Henry Morton was announced, and then Prof. C. F. Chandler, of Columbia College, a life-long friend of his, gave a short but most appreciative review of the life and work of the deceased. The assembled societies gave expression to their condolence by rising.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
May 29.	Piers and seawall,	Boston, Mass.	May 22
May 29.	Iron bridge,	Evansville, Ind.	May 22
May 29.	Water pipe, etc.,	Ashland, O.	May 22
May 29.	Iron fence,	New York, N. Y.	May 22
May 29.	Sewers,	Ottawa, Ill.	May 22
May 29.	Water pipe and specials,	Newark, N. J.	May 22
	Advertised, Engineering News, May 22.		
May 29.	Main sewer,	Cleveland, O.	May 8
	Advertised, Eng. News, May 8 and 15.		
May 29.	Iron bridge,	Caldwell, O.	May 15
May 29.	Sewerage map,	Lancaster, N. Y.	May 15
	Advertised, Engineering News, May 15.		
May 29.	Water-works,	Fort Revere, Mass.	May 29
May 30.	Water mains,	Troy, N. Y.	May 29
May 30.	School,	Danville, Ill.	May 22

May 30. Paving, Troy, N. Y. .....May 29
May 31. Bridge, Hastings, Minn. .....May 29
May 31. Street work, Denver, Colo. .....May 29
May 31. Road work, Pomfret, Conn. .....May 29
May 31. Paving, Owensboro, Ky. .....May 29
May 31. Water pipe and specials, Melrose, Mass. ....May 22
Advertised, Engineering News, May 22.
May 31. Public lighting, Birdsboro, Pa. .....May 22
May 31. Dam, etc., Fiskville, R. I. .....May 22
Advertised, Eng. News, May 22 and 29.
May 31. Bridges, Anadarko, Okla. Ter. .....May 22
May 31. Paving, etc., Janesville, Wis. .....May 22
May 31. Road work, Scarsdale, N. Y. .....May 22
May 31. Iron bridge, New Windsor, N. Y. .....May 15
Advertised, Eng. News, May 15 and 22.
May 31. Canal, Harvey, La. .....May 8
Advertised, Eng. News, May 8 to June 5.
May 31 Distributing boxes, (w.-w.), Washington..May 8
Advertised, Engineering News, May 8.
May 31. Wharf, Hilo, H. I. .....Apr. 10
May 31. Portland cement, Cincinnati, O. .....May 1
Advertised, Eng. News, May 1 to 29.
May 31. Water dept. supplies, Melrose, Mass. .....May 29
June 1. Postoffice, Janesville, Wis. .....May 15
June 1. School, Lancaster, S. C. .....May 15
June 2. Buildings, Ft. Des Moines, Ia. .....May 15
June 2. Water-works, Starke, Fla. .....May 15
June 2. School, Mingo Junction, O. .....May 15
June 2. Building, Columbus, Ga. .....May 8
June 2 Laboratory, Washington, D. C. .....May 8
June 2. Electric plant franchise, Flemingsburg, Ky. May 1
June 2. Water pipe, Cohoes, N. Y. .....May 22
Advertised, Eng. News, May 22 and 29.
June 2. Hydrants and valves, Kansas City, Mo. ....May 22
Advertised, Eng. News, May 22 and 29.
June 2. School, Easton, Pa. .....May 22
June 2. Boiler repairs, etc., New York, N. Y. .....May 22
June 2. Street work, New York, N. Y. .....May 22
June 2. Street work, Bowling Green, O. .....May 22
June 2. Earth work, Grenada, Miss. .....May 22
June 2. Bridge, Senatobia, Miss. .....May 22
June 2. Bridges (pile), Fargo, N. Dak. .....May 22
June 2. Sewers, Atchison, Kan. .....May 22
Advertised, Engineering News, May 22.
June 2. Conduits, Richmond, Va. .....May 29
June 2. Paving, Swanton, O. .....May 29
June 2. Paving, Cincinnati, O. .....May 29
June 2. Flagging, Elizabeth, N. J. .....May 29
June 2. Sewer, Charleroi, Pa. .....May 29
June 2. Bridge, Anoka, Minn. .....May 29
June 2. Sewers, Albany, N. Y. .....May 29
June 2. Sewer work, Scranton, Pa. .....May 29
June 3. Electric plant, Ottawa, Ont. .....May 29
June 3. Railway work (C. M. Ry.), Boston, Mass. ..May 29
Advertised, Engineering News, May 29.
June 3. Paving, etc., Butler, Pa. .....May 29
June 3. Cement, etc., New York, N. Y. .....May 29
June 3. Bridge, Findlay, O. .....May 22
June 3. Sewer bricks, Washington, D. C. .....May 22
Advertised, Engineering News, May 22.
June 3. Telegraph supplies, etc., New York, N. Y. .May 22
June 3. Bridge work, North Adams, Mass. .....May 22
Advertised, Eng. News, May 22 and 29.
June 3. Steel shapes, Washington, D. C. .....May 22
June 3. Water-works, Iona, Minn. .....May 22
June 3. Water improvement bonds, Dayton, O. ....May 22
June 3. Hospital, San Diego, Cal. .....May 22
June 3. Brick paving, Binghamton, N. Y. .....May 22
Advertised, Eng. News, May 22 and 29.
June 3. Paving blocks, etc., Washington, D. C. ...May 22
Advertised, Engineering News, May 22.
June 3. Electric railway, Jackson, Miss. .....May 15
June 3. Street railway work, Boston, Mass. .....May 15
Advertised, Eng. News, May 15 and 22.
June 3. Ditch, Beecher, Ill. .....May 15
Advertised, Eng. News, May 15 to June 5.
June 3. Paving, Jackson, Miss. .....May 15
Advertised, Eng. News, May 15 and 22.
June 4. Swing bridge, Douglas, Mich. .....May 22
June 4. Heating buildings, Port Getty, S. C. .....May 22
June 4. School, Brooklyn, N. Y. .....May 22
June 4. Sewers, Brooklyn, N. Y. .....May 22
June 4. Paving etc., Cohoes, N. Y. .....May 22
Advertised, Engineering News, May 22.
June 4. Road work, Cleveland, O. .....May 22
June 4. Pavement repairs, Pittsburg, Pa. .....May 29
June 4. Bridge, Medford, Ore. .....May 29
June 4. Sewer, Winchester, Ind. .....May 29
June 4. Paving, Cincinnati, O. .....May 29
June 4. Sewer, Cohoes, N. Y. .....May 29
Advertised, Engineering News, May 29.
June 5. Water-works, Ridgeway, Pa. .....May 29
Advertised, Engineering News, May 29.
June 5. Curbing, South Bend, Ind. .....May 29
June 5. Grading, Yankton, S. Dak. .....May 29
June 5. Electric plant, Navarre, O. .....May 22
June 5. Bridges, Olathe, Kan. .....May 22
June 5. Water pipe, castings, etc., Cincinnati, O. ..May 22
Advertised, Eng. News, May 22 and 29.
June 5. Sewer system, Guthrie Okla. Ter. .....May 22
June 5. Macadamizing, Eastchester, N. Y. .....May 15
Advertised, Eng. News, May 15 to June 5.
June 5. Bridges (2) Geneva, N. Y. .....May 15
No date. Harbor work, Port Adelaide, S. Australia. Apr. 24
No date. Railway work (K., L. & J.), Memphis, Tenn. May 15
Advertised, Eng. News, May 15 and 22.
No date. Electric lighting, Vancouver, Wash. .....May 22
" . Building, Birmingham, Ala. .....May 22
No date. Excavating, Beaumont, Tex. .....May 29

RAILWAYS.

AKRON & BARBERTON.—This company was organized in Pittsburg, Pa., on May 22, and will be jointly owned by the Pennsylvania R. R., the Erie R. R., the Baltimore & Ohio R. R. and the Vanderbilts. The new company will be capitalized at $100,000. About 15 miles of the road are already built, including a line joining Akron, O., and Barberton, with branches in the towns. In addition there are several spurs and extensions planned to gain entrance into all the important industries located nearby.

ALABAMA, TENNESSEE & MISSOURI.—Articles of incorporation have been filed by this company in Alabama, with a capital stock of $50,000, for the purpose of building a road through the counties of Etowah, Blount, Cullman, Morgan, Lawrence and Colbert to Sheffield or Lawrence, thence to St. Louis, Mo. E. R. Chapman and W. C. Antwerp, New York, and W. J. Boykin, Gadsden, Ala., are incorporators.

CAPE FEAR TERMINAL.—The contract for building a line between Wilmington, Del., and Southport, a distance of 30 miles, has been let to the Southport Construction Co., Wilmington. The contract price is said to be in the neighborhood of $1,450,000.

CENTRAL MASSACHUSETTS.—Bids are wanted by the Metropolitan Water & Sewerage Board, 1 Ashburton Place, Boston, Mass., until June 3, for section 4 of the relocation of this road in Oakdale, Mass., as stated in our advertising columns. The work will consist mainly of building embankments for the road with surface soil to be stripped from the site of the Wachusetts Reservoir, and protecting the embankments against waves with gravel, paving and riprap. The principal items are 130,000 cu. yds. of excavation, 5,200 cu. yds. of slope paving and 500 cu. yds. of riprap. Henry H. Sprague, Chn. Bd.; Fred. P. Stearns, Ch. Engr.

CHICAGO GREAT WESTERN.—Winston Bros., contractors, Minneapolis, Minn., have received a contract for work on the Omaha extension of this road amounting to about $1,000,000. The contract is for constructing 41 miles of the new road between Oelwein and Waverly, Ia.; it also covers about 30 miles of reconstruction of the road between Waverly and Hampton, making a total of 71 miles. Estimates are being prepared for a second track between Galena and Stockton.

CHICAGO GREAT WESTERN.—The contract for laying the steel on the Hampton-Clarion branch in Iowa has been let to E. J. Brennan, of St. Paul, Minn. The length of the new line will be about 27 miles. It is expected to begin work by June 1.

CHICAGO, KALAMAZOO & SAGINAW.—Plans are said to be under way for improvements to the company's property in Kalamazoo, Mich., and the vicinity which will represent an expenditure of about $300,000. J. W. Dewing is Vice-Pres. and Gen. Mgr., Kalamazoo.

COAL & COKE.—Incorporated in West Virginia with a capital stock of $5,000,000 to build a road from Elkins running by the most practical route to Glenville, Gilmer county, to provide an outlet for coal development along the line. Arthur Lee and C. S. Robb, Elkins, and C. M. Hendley, Washington, D. C., are incorporators.

COLUMBIA RIVER & NORTHERN.—Bids are asked until May 29 for the grading and bridging necessary in constructing that portion of this road from Lyle, Wash., to the head of Swale Canyon, a distance of 27½ miles. Emery Oliver, Ch. Engr., 263 Gambill St., Portland, Ore. ——The contract for building the 15 miles of this line from Goldendale, Wash., to Swale Canyon, was let to Axtell Anderson on May 15. The rails to be used will be 56 lbs.

DENVER & RIO GRANDE.—Press reports state that the contract for the laying of 50 miles of track on the new line from Delta to Buena Vista, Colo., will be awarded in a few days. The new line will traverse the valley of the North Fork of the Gunnison River, and will shorten the distance from Denver to Salt Lake. E. J. Yard is Ch. Engr., Denver.

DENVER, NORTHWESTERN & PACIFIC.—New incorporation papers are being drawn up and will soon be filed by this company in Utah, with a capital stock of between $25,000,000 and $40,000,000. The company is now incorporated to build from Denver to Hot Sulphur Springs, Colo., and in order to build through to Salt Lake, as it is intended, new papers will have to be filed in Utah. D. H. Moffat, of Denver, is the chief promoter.

ENTERPRISE SOUTHERN.—Ed. M. Johnson, Asst. Secy. Geneva, Ala., writes that negotiations for selling the company's bonds are under way, and the prospects of the line being built are promising. A preliminary survey has been made and profiles and estimates of the cost of building the line have been completed. The road will run from Enterprise to Geneva and St. Andrews Bay, having a length of about 100 miles. R. J. McDowell is President.

GUYANDOTTE VALLEY.—The contract for building 40 miles of the extension of this line has been let to Capt. L. Wright, Manchester, Va., and J. C. Carpenter, Clifton Forge, Va. Work will begin at once.

ILLINOIS SOUTHWESTERN.—Articles of incorporation have been filed with the secretary of state of Illinois for this company, capitalized at $2,200,000, to build and operate a railway from a point in Crawford county through the counties of Jasper, Richland, Wayne, Hamilton, Franklin, William, Perry, Union, Pulaski and Alexander, to a point in Jasper county. Delavan A. Holmes, Evanston; Chas. E. Selleck and Lavern W. Thompson, Chicago, are directors.

IOWA & MISSOURI.—This company has been chartered in Missouri with a capital stock of $1,500,000. The road is to run from St. Louis to Macon, Mo., 150 miles, and is to be operated with the Iowa & St. Louis R. R. The cost of construction will be $20,000 per mile. H. F. Reddig and J. E. Murphy, Kansas City, Mo., and Halleck W. Seaman, Clinton, Ia., are directors.

IOWA & ST. LOUIS.—An amended charter has been filed by this company in Missouri to extend its line from Adair county to Carterville, Ia., and to Macon, Mo., a distance of 100 miles. Geo. C. Cowles is Ch. Engr., Novinger, Mo. (See Iowa & Missouri in these columns.)

LAKE HURON & WESTERN.—H. C. Thompson, Ch. Engr., West Bay City, Mich., writes us that surveys have been made and rights of way obtained on the first 10 miles of the company's road, and that contracts will be let in about 30 days. The road will be 44 miles long. T. L. Handy is Pres., West Bay City.

MOBILE, JACKSON & KANSAS CITY.—A contract is reported to have been closed by Frank Merrill, Pres., for the construction of an additional 100 miles of road from Hattiesburg to Decatur, Miss. Work will be started at once.

NEW YORK, NEW HAVEN & HARTFORD.—The firm of C. W. Blakeslee & Sons, 58 Waverly St., New Haven, Conn., have received the award for building a cut-off running from North Attleboro to Adamsdale, Mass. The cut-off will be 4½ miles long, double-tracked, and will cost $160,000.

NORTH CAROLINA.—J. A. Brown, Chadbourn, N. C., a member of the Whiteville Lumber Co., is reported to have stated that work on the company's railway, to run from Whiteville to Pireway Ferry, on the Waccamaw River, 20 miles, will begin in a few days. It is reported likely that the road will be extended to Southport.

NORTHERN PACIFIC.—A contract is reported to have been awarded to Cook & Hinds, contractors, of Helena and Butte, Mont., for building 50 miles of the Bismarck and Edgeley branch of this road, which will branch from the main line at McKenzie, 18 miles south of Bismarck.

OREGON SHORT LINE.—The Flick & Johnson Construction Co., of Davenport, Ia., has recently received a contract for a cut near Salt Lake City, Utah, to be about 1½ miles long. The cut will be 160 ft. in depth, and will cost nearly $1,500,000.

PENNSYLVANIA R. R.—The following contracts have been awarded by W. H. Brown, Ch. Engr., Philadelphia, Pa., for grading and masonry work in connection with the double-tracking of a portion of the Philadelphia & Erie Ry.: Section No. 1, from Nisbet to Jersey Shore, to Thomas F. Kerns & Son, Pottsville; No. 2, from the east end of Keating bridge to mile post No. 175 west of Round Island, Miller & McGraw, Philadelphia; No. 3, from mile post No. 175 to mile post No. 168 at Driftwood, McMenamin & Sims, Philadelphia; No. 4, from Driftwood to mile post No. 163, west of Huntley, C. A. Sims & Co., Philadelphia; No. 7, from mile post No. 175 to Emporium Junction, A. F. Chapman & Co., Buffalo. Sections 5 and 6 are yet to be awarded.

PITTSBURG, SHAWMUT & NORTHERN.—This company is engaged in connecting up its various lines so as to make a through main line. The first portion of the work from Clermont to Kasson, Pa., 7½ miles, has been let to Lathrop, Shea & Henwood Co. The work is very heavy, there being approximately 600,000 yds. of material to be handled. The next line to be built will be from Bolivar to Angelica, N. Y., a distance of 23 miles. This contract will probably be let within the next 30 days. The next construction to be let is from Coryville, Pa., to Olean Junction, N. Y., a distance of 14 miles. This will give the road a through line from the coal fields in Elk County, Pa., to Wayland and Hornellsville, N. Y. The construction on these lines will all be of the first class, and existing lines will be improved so as to conform to the adopted standard construction. Stone and steel bridges will be used throughout, and 85-lb. steel rails will be used on the line. The entire line is expected to be completed by December 15. Future extensions are contemplated north of Wayland and south of Hyde and will probably be undertaken next year. All the construction work is done through the Interior Construction & Improvement Co. The headquarters of company's engineering department is at Olean, N. Y.

SAN DIEGO & EASTERN.—This company has filed articles of incorporation in California to build a line of railway from San Diego, following the international boundary to Yuma. The distance is 217 miles, and the capital stock is $217,000. Geo. W. Marston is Pres., San Diego; L. I. Boone, Secy., San Diego, and S. S. Ferguson, Mgr.

ST. PAUL TERMINAL & TRANSFER CO.—This company has been incorporated in Minnesota with a capital stock of $150,000. The object is to furnish the Burlington, Cedar Rapids & Northern with a line to South St. Paul, connecting with the depot and terminal grounds already secured by that company in West St. Paul, and with other St. Paul business houses and factories.

SEABOARD AIR LINE.—Reports state that this company will spend about $5,000,000 for an entrance into Birmingham, Ala., and the erection of a station and terminal in that city.

TENNESSEE CENTRAL.—The bidding for construction of the line between Nashville and Clarksville, Tenn., is reported to have been opened on May 15. It is believed that the Cumberland River route will be followed. This route is about 49 miles in length, and has a maximum curvature of 4° and an average grade of 42½. The ridge route is 46 miles long, with 4° maximum curvature and 2% average grade.——A contract is reported to have been let to Smith & Brady, railway contractors, Nashville, Tenn., for building three miles of road from the main line at Daysville. The contract was let by the Chicago-Tennessee Coal & Coke Co., which company owns vast mineral lands in Cumberland county, and will commence the development of the same at once.

TEXAS & OKLAHOMA.—Chartered in Oklahoma with $3,500,000 capital stock, to build an extension of the Missouri, Kansas & Texas road from Oklahoma City to Colgate, Ind. Ter., a distance of 105 miles. Dorsey Toler, New York; F. N. Finney, Milwaukee, Wis., and Horace Speed, Guthrie, Okla., are interested.

WASHINGTON & ELBERTON.—C. E. Smith, of Washington, Ga., writes that the projectors of this railway have secured a renewal of the old charter of the Washington & Northern road, but will change the name to the above. The capital has been secured. The line will be about 30 miles long.

WEST VIRGINIA.—W. P. Rend & Son, of Chicago, Ill., have let contracts for a 4-mile broad-gage railway between Luke Creek and Rend, near Thurman, W. Va.

WHEELING & LAKE ERIE.—W. S. Newhall, Ch. Engr., Cleveland, O., writes us that the contract for the remainder of the extension from Adena to St. Clairsville Junction, O., running from Mayard to St. Clairsville Junction, has been let to T. J. Stringer, Portland Station, O.

STREET AND ELECTRIC RAILWAYS.

BERLIN, N. H.—We are informed that the contract for building the Berlin St. Ry. has been let to a Mr. Smith, of Bangor. All the rights of way for the line, which will run from Berlin to Gorham, a distance of seven miles, have been secured. C. P. Day is Pres. and C. B. Gifford Ch. Engr., both of Berlin.

NEW HAVEN, CONN.—It is reported that the Fair Haven & Westville road has purchased the estate of Maria D. Carberry, on Thomas St., and will erect thereon a new power house.

ALBANY, N. Y.—The Queens Ry. Co. has been incorporated, with a capital stock of $2,500,000, to operate a surface railway in the borough of Queens from Flushing to College Point, Whitestone, and to Jamaica. Clarence Miller, Philadelphia; Wm. E. Stewart, New York, and Jacob R. Beetem, Long Island City, are interested.

GLOVERSVILLE, N. Y.—Bids are asked by the Mohawk Valley Construction Co., Gloversville, until June 10, for the grading of about one mile of double track railway, requiring the removal of about 80,000 cu. yds. of sand, as stated in our advertising columns. Plans and specifications may be seen at the office of the Amsterdam St. R. R. Co., Amsterdam. J. N. Shannahan, Pres. Mohawk Valley Construction Co.

NEW YORK, N. Y.—The Interborough Rapid Transit Co., which is to equip and operate the Rapid Transit R. R., has been organized, with the following officers: Pres., August Belmont; Vice-Pres. and Gen. Mgr., E. P. Bryan; Secy., Fred. Evans, and Treas., John F. Buck. The company is capitalized at $25,000,000.——A site for a power house has been secured by the Manhattan Ry. Co. at 311-19 Wooster St., running to 311-19 West Broadway. The new plant will be used in connection with the operation of the West Side elevated roads by electricity.

NEWPORT, N. Y.—A. S. Berry, Pres. Newport & Alexandria Electric Traction Co., Newport, writes us that the surveys for the company's line are nearly completed and a large part of the right of way has been secured. No contracts have yet been made. The line will run from Dayton to Bellevue, Ft. Thomas, Cold Springs and Alexandria, a distance of 14 miles. J. J. Weaver is Ch. Engr., Ludlow.

NEWARK, N. J.—The contract for engines to be used at the new power house of the North Jersey St. Ry. at Newark has been let to the Brown Engine Co., of Milwaukee. The contract for the foundations has been let to B. F. Shanley & Co. The company expects to spend $1,500,000 in improvements.

PITTSBURG, PA.—The rapid transit commission appointed to consider the traction question and the necessary remedies for solving the congested condition in this city has appointed Emil Swensson, C. E., 925 Frick Bldg., Consulting Engineer.

WASHINGTON, D. C.—The Washington, Baltimore & Annapolis Electric R. R. is reported to have let a contract to Rogers & Hall, Sykesville, Md., for grading the road between the District line and Westport, near Baltimore, a distance of 31 miles. The construction will be started at once.

CHARLESTON, S. C.—A franchise has been granted by the council to the Charleston Suburban & Summerville Ry. for the use of certain streets. Work will soon be started.

CHARLOTTE, TENN.—Graham Egerton writes us that the business men of Dickson county are anxious to have an electric railway built through the county, commencing at Dickson, Tenn., via Charlotte, to a point on the Cumberland River, a distance of about 28 miles. Dickson, pop. 2,500, has two stave plants, two axe-handle plants, a brick plant, etc., and Charlotte, pop. 500, has a roller mill in course of construction, sawmill and machine shop in contemplation. A lime plant will also be built at Cumberland Furnace, on the route of the proposed road. The intended line will pass through good farming and mineral country. The people will give the right of way and the crossties towards building the road. The grades are easy and no streams of any size are to be crossed.

It is desired to get into communication with parties who have the capital to put such a road in operation. The franchises to furnish light and power to the towns mentioned can be obtained by those owning the road. A meeting will be held in Charlotte June 2 to consider the project further, and when it is desired to hear from contractors.

SHARPSBURG, KY.—O. Ratliff, of this place, a director of the Mt. Sterling & Sharpsburg Electric R. R., writes us that a franchise has been secured by the company through the counties of Montgomery and Bath over a turnpike road. The construction capital is not yet secured. The surveys and estimates of the cost of construction are being made and are expected to be completed within the next few weeks. The line will be about 10 or 12 miles in length. John E. Cooper is Pres., Mt. Sterling.

MANSFIELD, O.—W. W. Stark, Pres. Mansfield, Mt. Gilead & Delaware Electric R. R., informs us that all the rights of way for the line are practically secured, with the exception of about 2½ miles. The line will run from Lexington to Williamsport, Mt. Gilead, Cardington, Ashley and Delaware, a distance of 50 miles.

YOUNGSTOWN, O.—The Pennsylvania & Mahoning Valley Ry. Co. has been incorporated under the laws of Pennsylvania with a capital stock of $8,000,000. The company represents a consolidation of the Trumbull Electric Co., the Mineral Ridge Ry. Co., the Mahoning Valley Ry. Co., the Newcastle & Lowell R. R. Co., the Newcastle Traction Co., the Lawrence Gas Co. and the Newcastle Electric Co. The combine has also purchased Cascade Park, near Newcastle. It controls 90 miles of track, reaching from Leavittsburg, Ohio, to Newcastle, Penn. M. A. Yerner is Pres., Pittsburg, and James Parmelee is Vice-Pres., New York.

KOKOMO, IND.—The Kokomo St. Ry. & Light Co. is now constructing six miles of additional track in this city. Geo. J. Maratt is Pres.

WARSAW, IND.—Officials of the Logansport, Rochester & Northern Traction Co. have announced that the portion of the line between this city and Winona Lake will probably be built this spring.

LANSING, MICH.—The Jackson & Battle Creek Traction Co., capitalized at $900,000, has been organized to construct and operate an electric railway from Jackson to Battle Creek, passing through Albion and Marshall. Warrell Wilson, Glenn D. Smith, Jackson, and E. J. Marrimac, Grass Lake, are incorporators.

SPRINGFIELD, ILL.—The Galesburg & Kewanee Electric R. R. has been incorporated, with a capital stock of $600,000, to build a line between those points. W. D. Patty, Oneida; S. E. Robb, Kewanee, and W. D. Godfrey, Galesburg, are incorporators.

PRESTON, MINN.—H. R. Wells, Pres. Minnesota & Iowa Electric Ry., Preston, informs us that the organization of the company has been completed in both states, that rights of way over highways are partly secured, and preliminary surveys are made between Decorah and Chatfield. The line will be 150 miles in length, and will run from Decorah, Ia., to Preston, Chatfield, Rochester, Hastings and St. Paul, Minn. O. H. Case is Ch. Engr., Fountain, Minn.

TOPEKA, KAN.—The Chanute & Iola Interurban Electric R. R. was chartered here on May 19, with a capital stock of $900,000. The company will build a line from Chanute to Iola by way of Humboldt. G. N. Lindsay, Chanute; Frank Hoblitt, Lincoln, and L. L. Northrup, Iola, are interested.

KANSAS CITY, MO.—The Metropolitan St. Ry. Co. has asked for permission to erect poles and wires in Troost Ave., necessary to change the motive power of that line from cable to electricity.

PUEBLO, COLO.—Articles of incorporation have been filed by the Pueblo Interurban Electric & Power Co. The articles state that the objects of the company are to build an electric street railway between La Junta and Pueblo for the transportation of passengers and freight, and also systems of street railway in the towns of La Junta, Manzanola, Rocky Ford and other places; also to supply light and power. E. G. Middelkamp, Andrew Park and Dr. A. P. Busey are incorporators.

ABERDEEN, WASH.—Work was started on May 17 by the Aberdeen & Hoquiam Electric Ry. Co. upon its line between this city and Hoquiam. John Low is the contractor.

OREGON CITY, ORE.—The Oregon City & Suburban Ry. Co. has been incorporated, with a capital stock of $1,000,000. The company proposes to build an electric line to traverse the east and west parts of the city, reaching to Oswego, Williamette and Redland. The line will be more than 14 miles in length. C. D. Latourette, D. C. Latourette and L. C. Driggs are interested.

MONTREAL, QUE.—The Montreal Terminal Ry. has accepted the 10-year franchise granted by the council for a line in this city.

LIGHT, HEAT AND POWER PLANTS

GORHAM, N. H.—The Cascade Electric Light & Power Co. is considering the question of building a steam plant.

UXBRIDGE, MASS.—The Northbridge & Uxbridge Electric Light Co. has been granted permission to extend its pole lines to certain nearby places.

WILLIAMSBURG, MASS.—H. W. Hill, N. C. Smith and G. M. Branford have formed a company to build and operate a power plant.

BRANFORD, CONN.—A. Wm. Sperry, of New Haven, Conn., is preparing plans for extending the plant and water-works of the Branford Light & Water Co.

AUBURN, N. Y.—The Citizens' Light & Power Co. is reported as about to begin work on the proposed gas plant, to include a building for making gas, to be 100 × 40 ft.; a coal storehouse, 60 × 25 ft., and a power house 140 ft. long. Wm. H. White is Engr.

BINGHAMTON, N. Y.—The Binghamton Light, Heat & Power Co. proposes to build a new electric plant, to cost about $200,000.

CASTILE, N. Y.—The question of issuing $75,000 in bonds for an electric plant, sewers and buying the water-works is being considered.

EASTHAMPTON (L. I.), N. Y.—F. H. Tillinghast, S. H. Miller, C. E. C. Homan and others have formed a company, with a capital of $50,000, to build and operate an electric plant.

NIAGARA FALLS, N. Y.—The Niagara Falls Power Co. will vote June 3 on the question of increasing the capital stock from $6,500,000 to $9,500,000.

SYRACUSE, N. Y.—The Syracuse Lighting Co. has purchased land in Manlius St., East Syracuse, on which it is proposed to build a new plant. J. J. Cummins is Gen. Mgr.

JOHNSTOWN, PA.—The Consumers' Gas Co. proposes to build an addition to its power plant.

McKEESPORT, PA.—The council is preparing to issue $60,000 at once to begin the construction of the proposed municipal plant. The city contract with the Monongahela Electric Light Co. expires in September. R. A. Hitchens is Controller.

PHILADELPHIA, PA.—The Philadelphia Co. is understood to have let all the contracts for the machinery for the new plant on Brunots Island, to cost $1,800,000, and has completed final plans for the steel building.——The Panhandle R. R. Co. has let the contract to F. R. Dravo & Co. for the new coal chute and trestle on the Ohio Connecting R. R. bridge, and work will be hurried along this spring. The power building will be 500 ft. × 150 ft. wide, and it will be so arranged that a duplicate building and installation can be secured at any time without destroying the economical operation. The plans have been prepared under the direction of John Murphy, Gen. Supt., and F. H. Uhlenhaut, Ch. Engr. The power plant will consist of nine direct-connected Westinghouse generators in units of 1,800 K-W. or 2,000 HP. The contract for these has been let to the Westinghouse Electric & Mfg. Co., in connection with a large switchboard and all necessary electrical equipment. The engines will be of the Corliss type in units of 2,000 HP., and the contract for them has been placed with the Providence Engineering Co. The contract for a battery of boilers of 10,000 HP. has been let to the Babcock & Wilcox Co. No contract has yet been placed for the structural steel for the building. Work was started on the excavations for the foundations. The Philadelphia Co. will receive coal for its power plant from the Ohio Connecting bridge. A trestle will be built adjoining the present bridge so that cars of coal can be hauled out over the stock pile of the power plant. The coal will be unloaded by gravity. The wires from the power plant will be carried along the bridge to either side.

PHOENIXVILLE, PA.—The Valley Illuminating Co. is preparing plans for a power plant of 650 HP. capacity near here. J. J. Kennedy is Engr., 52 Broadway, New York.

WRIGHTSVILLE, PA.—The Wrightsville Light & Power Co., 102 East Market St., York, Pa., is reported as receiving bids for a plant, to consist of a 150-HP. high-speed engine, a 175-HP. horizontal tubular boiler, steel stack, 100-HP. turbine wheel, etc.

YORK, PA.—The Susquehanna Power Co. is reported as making surveys for its 30,000-HP. power plant and 2,850-ft. concrete dam. P. I. Hutchinson, 56 Pine St., New York, is interested.

CRISFIELD, MD.—The Crisfield Light & Ice Mfg. Co. proposes to install a new 125-HP. engine and wishes to secure catalogues, etc.

POCOMOKE CITY, MD.—Dr. W. H. Walters proposes to improve the electric plant.

WILLIAMSPORT, MD.—The matter of building an auxiliary electric plant, to cost $5,000, has been postponed.

RICHMOND, VA.—The Virginia Electric Light & Power Co. has asked for a franchise for a power plant.

BELINGTON, W. VA.—Frederick Moore, Ed. "Central Republican," writes that a franchise proposition for an electric plant and water-works is before the council. The plant will cost about $7,000, and bids will probably be wanted by June 20.

DALTON, GA.—Julian McCamy, Mayor, writes us that plans and specifications for the proposed plant, to cost $9,000, are about ready. Bids will be wanted about July 1. A. S. Dunstan, Engr., Auburn, Ala.

STATESBORO, GA.—I. A. Bramer writes us that a plant and water-works will be built.

ENSLEY, ALA.—W. T. Terry, who was recently granted a franchise, has asked for a lighting contract, after the granting of which work will begin. N. W. Scott is Mayor.

HOMER, LA.—This place will vote June 26 on the question of issuing $10,000 in bonds for an electric plant.

MEMPHIS, TENN.—The Equitable Gas Co. proposes to lay about 40 miles of new gas mains and to make other improvements.

CLEVELAND, O.—A power house, to have a total of 200,000 sq. ft. of floor space, is to be built. Address Lee & Jones.

COLUMBUS, O.—The city clerk has been directed to sell the $175,000 of bonds for a city electric plant, recently voted, and on which work will probably soon begin. Director Immel, of the department of public improvements, will begin work on the new water-works dam on the Scioto River at once.

SPRINGFIELD, O.—The Citizens' Heating & Power Co. has asked for a 25-year heating franchise.

VINCENNES, IND.—J. P. Bayard writes us that this city will not be ready to do any work on its proposed plant in several months.

ZEELAND, MICH.—This place voted May 26 on the question of issuing $18,000 in bonds for an electric plant.

CHICAGO, ILL.—The Illinois-Jersey Trust Co. has been incorporated to combine the People's Gas Light & Coke Co., the Chicago Edison, etc. About $1,000,000 will be spent on improving the plants in Chicago, Cicero and Evanston. H. M. Wisler, 1113 Marquette Bldg., is interested.

EDWARDSVILLE, ILL.—Wm. Gaertner and August Loeffler, of Wyandotte, Mich., have been granted a 15-year franchise for an electric plant.

PEORIA, ILL.—Bids are asked until June 16 for furnishing 575 2,000-c. p. arc lights for one, two or five years, from Nov. 1, according to reports. R. M. Orr, Cy. Clk.

CEDAR FALLS, IA.—Austin Burt, Mgr. Cedar Falls Electric Light Co., proposes to build a gas plant.

MOLINE, IA.—The Moline, East Moline & Watertown Ry. Co. is planning for a new power house here.

KANSAS CITY, MO.—An election will be held July 1 to vote on the question of issuing bonds for a municipal electric plant.

MONROE CITY, MO.—This place has voted to issue $25,000 in bonds for an electric plant.

ST. LOUIS, MO.—The Citizens' Electric Lighting & Power Co., of which Julius S. Walsh is Pres.; the Imperial Electric Light, Power & Heating Co., E. G. Bruckman, Pres.; the City Lighting Co., E. G. Bruckman, Pres., and the Seckner Construction Co. have been combined and the Union Electric Co. formed, with a capital of $20,000,000. The Citizens' company mentioned is now building a plant to cost $1,500,000.

SEGUIN, TEX.—J. T. Holmes and Eugene Nolte propose to build a power plant to develop about 800 HP. on the Guadeloupe River, according to reports.

NORMAN, OKLA. TER.—Bids are asked until June 10 for the purchase of a franchise for an electric plant and the awarding of a contract for furnishing the city with not more than 20 2,000-c. p. arc lights, etc. Pop., 3,500. R. Maphis, Cy. Clk.

EUGENE, ORE.—Reports state that P. J. Jennings, a mining and railroad promoter, is forming the Calapooia Mining & Tunnel Co., to build a power plant on the Bow River; capital, $3,000,000. A tunnel 7 × 8 ft. will be built from the head of Champion Basin to the Murich Mines, about 7,000 ft., at a cost of $175,000.

BRIGHAM CITY, UTAH.—The city trustees are considering the question of building an electric plant.

CORINNE, UTAH.—This place will vote June 16 on the question of issuing $30,000 in bonds for an electric plant. H. C. Boden, Mayor.

WEISER, IDAHO.—This city will vote June 23 on the question of granting a franchise to H. V. Gates, of Hillsboro, Ore., for an electric plant to cost $25,000.

WILLIAMS HEAD, B. C.—Bids are asked until June 3 for an electric plant at Quarantine Station. Fred Gelinas, Secy. Dept. Pub. Wks., Ottawa, Ont.

BRIDGES.

DELHI, N. Y.—At a special session of the supervisors to provide for extraordinary expenditures upon bridges and highways, as a result of flood damages, Andes was authorized to borrow $10,000, Colchester $6,000 and Middletown $30,000.

ONOVILLE, N. Y.—Wm. R. Davis, Ch. Bridge Des., State Engineer's Office, Albany, N. Y., writes us that plans are now being prepared and bids will probably be called for in July for constructing the proposed Allegany River bridge at Onoville. The bridge is to have four spans of about 125 ft. each, is to be 16 ft. wide and to have a capacity of 70 lbs. per sq. ft. The foundation is to be concrete masonry on piles. The cost of the work has been estimated at about $29,000.

PERRY, N. Y.—An appropriation of $7,000 has been voted for the construction of a bridge across Silver Lake outlet, between Walnut and Elm Sts.

ROCHESTER, N. Y.—The contract for the repair of the Vincent St. bridge has been let to the Rochester Bridge & Construction Co. for $24,200.

CAMDEN, N. J.—The county freeholders' committee on appropriations has included in their budget an appropriation of $20,000 for the erection of a bridge across Coopers Creek at Baird Ave.

CONNELLSVILLE, PA.—A local press report states that by the collapsing of the Breakneck Reservoir and the consequent flood two bridges of the Southern Pennsylvania R. R. were much damaged.

EBENSBURG, PA.—The contracts for the stone work of two bridges to be erected in Cambria and Portage townships have been let to J. A. Shoemaker, Ebensburg, for a total bid of $2,335. The contract for the ironwork of the two bridges has been let to the King Bridge Co., Pittsburg, for $2,650.

SUNBURY, PA.—The Sunbury Bridge Co. has been chartered, with a capital of $5,000, to build a bridge across the Susquehanna River between this place and Shamokin Dam. J. K. McWilliams, Sunbury, is one of the directors.

MARTINSVILLE, VA.—The county supervisors have ordered the construction of two iron bridges, one over Smith's River at Bassett, to cost $3,000, and the other over Leatherwood Creek near Martinsville, to cost $1,700.

CHARLOTTE, N. C.—D. P. Hutchison, Chn., writes us that two concrete or iron bridges are to be erected in Charlotte. The bridges are to be of 50-ft. span, a width of 60 ft., and are to be strong enough to support a street car line or 15-ton roller.

SHREVEPORT, LA.—The council has decided to advertise for bids for plans and specifications for the erection of a steel bridge over Cross Bayou, to cost about $20,000.

PADUCAH, KY.—A bill has been before the House for the incorporation of the Interstate Bridge Co. and to authorize the construction of a railroad bridge across the Ohio River between this city and Cairo.

CINCINNATI, O.—The county commissioners have condemned "Lost Bridge," which spans the Great Miami at Elizabethtown, and have ordered County Engineer Krug to submit plans for a new structure. The new bridge is to be of iron, and will cost about $150,000.

SPRINGFIELD, O.—W. H. Sieverling, Cy. Engr., writes us that the structure to be located on Sherman Ave. across Buck Creek is to be a Morrison truss bridge, which the city now owns. There are to be two 286-ft. approaches, and the total cost, including work on substructure and superstructure, is estimated at $3,950.

ZANESVILLE, O.—Bids are asked until June 16 for repairing the Muskingum River bridge in this city. Geo. B. Hibbs, Co. Audr.

SULLIVAN, IND.—Plans and specifications have been made for a 50-ft. iron bridge across "Bus Row" Creek, to be built jointly by Vigo and Sullivan counties.

BENTON HARBOR, MICH.—A special election is to be held May 29 to vote on the issuance of bonds for placing swing bridges across the Paw Paw River, in accordance with the orders of the U. S. government.

GRAND RAPIDS, MICH.—K. S. Riser writes us that the bids for a railroad plate girder bridge on tubular steel foundation piers were received May 8 and the contract awarded to the Wisconsin Bridge Co.

CHICAGO, ILL.—The engineering committee of the drainage board has ordered that every center pier bridge in the south branch of the Chicago River be replaced by a bascule bridge. Chief Engineer Randolph has been ordered to make plans for the proposed bridges, and all of the structures will be built inside of three years.

DANVILLE, ILL.—Residents of Vermillion Heights are agitating the question of a new bridge connecting West Main St. with the Heights. A special committee, A. C. Daniel, Chn., has been appointed to consider the matter.

PEORIA, ILL.—The contract for a bridge across the Kickapoo, near Elmwood, has been let to the Illinois Bridge & Machine Co., Jacksonville, Ill., for $2,600.

ST. CHARLES, ILL.—The council has been considering a proposition from the Elgin, Aurora & Southern Traction Co. for building a bridge across the river at this place.

STERLING, ILL.—Local press reports state that the bridge across Rock River between this city and Rock Falls has been condemned by a bridge expert. A new steel bridge of the overhead truss pattern to replace the present structure would cost about $35,000.

MILWAUKEE, WIS.—A bond issue of $85,000 has been authorized for the construction of the Muskego Ave. bridge, and the committee on bridges has voted to recommend the passage of a resolution instructing the board of public works to call for bids for doing the work.

HASTINGS, MINN.—Bids are asked until May 31 for building a steel wagon bridge across the Vermillion River near the state asylum. Board of Control of State Institutions, 344 Endicott Bldg., St. Paul, Minn.

ONOKA, MINN.—Bids are asked until June 2 for furnishing material and erecting a steel highway bridge across the Rum River. Selden McGaffey, Co. Audr.

ST. PAUL, MINN.—A local press report states that during the recent flood 16 iron bridges in and about Decorah were washed away or otherwise damaged.

ABERDEEN, S. DAK.—Bids are asked until June 10 for building a 32-ft. I-beam steel bridge, with 16-ft. steel approach and 16-ft. roadway. Bids will also be received at the same time for various other bridge work. Chas. Eygabroad, Co. Audr.

OLIVET, S. DAK.—Bids are asked until June 11 for the construction of two steel bridges, 40 and 50-ft. spans, approaches 12 ft. and 10 ft. D. D. Wipf, Co. Audr.

ST. CHARLES, MO.—The council has granted the St. Charles & St. Louis County Bridge Co. a 50-year franchise for the use of Adams St. for the right of way for its highway bridge, to be built at once in this city.

ST. LOUIS, MO.—The Kings Highway Improvement Association is urging that an appropriation of $95,000 be made to build a viaduct over the railroad tracks where they are crossed by King's Highway.

ORANGE, TEX.—This city has voted to issue $15,000 of street and bridge bonds.

SEATTLE, WASH.—The contract for the construction of a bridge across the Snoqualmie River has been let to the Puget Sound Bridge & Dredging Co., at $3,189 for the

bridge and foundation, $2.49 per ft. for approaches and $1.50 per ft. for wings. The contract for the Green River bridge above Auburn, was also awarded to the same firm for $1,529.

CHINOOK, WASH.—It is reported that the drawbridge across Alger's Slough at Shamokawa has become unsafe and that a committee is to ask the county commissioners for a special election to vote regarding a new bridge. A steel bridge, to cost about $5,000, is generally favored.

SPOKANE, WASH.—The contract for the construction of three steel bridges in Walla Walla county on the line of the Washington & Columbia River R. R. has been let to McCreary & Willard. The contract totals about $20,000.

TACOMA, WASH.—The contract for a steel bridge to be built on Puyallup Ave. for the Tacoma Railway & Power Co. has been let to Mills & Tweeden. The bridge will cost about $7,200.

MEDFORD, ORE.—Bids are asked until June 4 for constructing a steel bridge across Ben Creek, to consist of two 110-ft. spans, with 72-ft. approach. Carl T. Jones, Co. Surv.

SALEM, ORE.—Marion and Linn counties have decided to jointly construct a 190-ft. bridge across the Santiam River at Gates.

LOS ANGELES, CAL.—The question of the issuance of $50,000 of bridge bonds is to be voted on at the same election as the one for school and sewer bonds. The money is to be used as follows: Macy St. bridge, $9,650; Aliso St. bridge, $27,100; Pasadena Ave. bridge, across Arroyo Seco, $8,350; Macy St. bridge, across Arroyo de los Posos, $4,900.

NAPA, CAL.—The contract for constructing a stone bridge across Garnett Creek near Calistoga has been let to H. W. Wing, Napa, Cal., for $1,825.

NEVADA CITY, CAL.—The contract for the construction of a steel bridge across Deer Creek has been let to Clark & Henry for $10,143.

OAKLAND, CAL.—It is reported that Sante Fe is to build a bridge, the width of the street, over Temescal Creek, at a cost of $6,000.

REDDING, CAL.—Bids are to be opened July 10 for building a road across Rock Creek on the Redding and Keswick Road. Estimated cost of bridge is $1,600.

RIVERSIDE, CAL.—According to a local press report, the Salt Lake Railway Line will build across "The Narrows" of Santa Ana River a very long concrete arch bridge.

SACRAMENTO, CAL.—The question of a county bridge over the Mokelumne River near Walnut Grove is being considered.

SAN MATEO, CAL.—The contract for constructing the county Road, B and D St. bridges has been let to R. Keatinge for $25,073.

NAMPA, IDAHO.—Plans and surveys for the proposed bridge across the Payette River near Payette and Emmett are reported as being made, and according to the report bids are to be called for soon by the county commissioners for doing the work.

BUILDINGS.

BATH, ME.—Chas. W. Morse, New York, has decided to present to Bath a high school building, at an estimated cost of from $50,000 to $75,000. Plans will soon be prepared.

GROTON, MASS.—Bids are wanted by the selectmen until June 5 for the erection of an addition to the Groton almshouse.

MAYNARD, MASS.—Bids are asked until June 4 for the erection of a 6-room school house in this town. Rev. John A. Crowe, Chn. Bldg. Com., should be addressed, care C. J. Bateman, Arch., 7 Exchange Place, Boston.

BUFFALO, N. Y.—The Buffalo Harbor Land Co. proposes to construct storage warehouses at the foot of Michigan St. The company is capitalized at $40,000. T. A. Budd, C. R. Wilson and A. H. Powell are interested.

NEW YORK, N. Y.—Ehrich Bros. will erect a 5-story stone and brick store, 47 x 99 ft., on the south side of 23d St., to cost $100,000.——The Harvard Club has purchased ground adjacent to the club-house in 44th St., and will erect an addition to the present building.

NEW YORK, N. Y.—Plans have been filed by J. Fleischman, 65 Central Park West, for a 12-story brick hotel, 53 x 104 ft., at 12-16 East 31st St., to cost $400,000. Buchman & Fox, Archs., 11 East 59th St.; by M. Tully, 734 East 145th St., for a 6-story brick tenement, 101 x 90 x 87 ft., at Lenox Ave. and 138th St., to cost $150,000. H. T. Howell, Arch., Third Ave. and 138th St.; by Mr. Gold, 37 West 118th St., for a 6-story brick tenement in East 118th St., 50 x 86 ft., to cost $45,000. Horenburger & Straub, Archs., 122 Bowery; by James Byrnes, 350 West 56th St., for a 12-story brick hotel, 50 x 11 ft., at 147-49 West 55th St., to cost $300,000. C. Hill, Arch., 100 Broadway; by W. E. Finn, 1904 Madison Ave., for an 11-story brick loft building, 99 x 275 x 11 x 137 ft., in Broadway, to cost $1,600,000. Buchman & Fox, Archs., 11 East 59th St.; by the Orient Co., 137 Broadway, for a 13-story brick building, 67 x 10 x 72 x 39 ft., at Wall and Pearl Sts., to cost $300,000. Clinton & Russell, Archs., 32 Nassau St.; by I. W. Lyon, Englewood, N. J., for a 4-story brick factory, 97 x 80 ft., at 520-28 West 27th St., to cost $35,000. R. W. Wingate, Arch., Arlington, N. J.; by Baum & Lapin, 167 Rivington St., for a 6-story brick tenement house, 50 x 87 ft., at 197-99 Hester St., to cost $45,000. M. Bernstein, Arch., 111 Broadway; by Haft & Hirsh, 416 East 52d St., for two 6-story brick tenement houses, 37 x 87 ft., at 341-43 East 120th St., to cost $40,000. G. F. Pelham, Arch., 503 Fifth Ave.; by Ehrich Bros., for a 5-story addition to the store in 23d St., west of Sixth Ave., to be 46 x 98 ft. and to cost $100,000. Buchman & Fox, Archs.

ONEIDA, N. Y.—Bids are asked until June 5 for the purchase of $350,000 in court house bonds. Jas. H. Flanagan, County Treas.

UTICA, N. Y.—Henry A. Davis, real estate dealer, of this city, has purchased the Brintnal property in Syracuse and will erect a block costing about $50,000.

ELIZABETH, N. J.—Rev. Dr. Sleeper, rector of Grace Church, has announced that a New York woman and her sons will give the parish a club-house, costing between $50,000 and $60,000.

MONTCLAIR, N. J.—A. F. Morris, Arch., has plans for a 3-story stone and brick office building to be erected in this place at a cost of $50,000.

PLAINFIELD, N. J.—E. H. Gilbert, Arch., Orange, has completed plans for the rebuilding of the Babcock building, destroyed several weeks ago, to cost about $80,000. A passenger elevator will be installed.

ALLENTOWN, PA.—Bids are asked until June 4 for the erection of an addition to the Washington School building, and until June 16 for the erection of a new Fifth Ward school building. T. P. Wenner, Secy., 540 North Sixth St.

LANCASTER, PA.—Plans have been completed for a 5-story office building at Duke and Orange Sts. for Jas. P. Brennan, 133 Duke St., to be of mill construction, 67 x 79 ft., and to cost $40,000.

PHILADELPHIA, PA.—Wilson Bros. & Co., Archs., Drexel Bldg., have completed plans for an extension to the administration building of the Presbyterian Orphanage, 38th St. and Kingessing Ave., to be of stone and three stories high.——The German-American Title & Trust Co. will tear down its building at Broad and Arch Sts. and will erect a 12-story office building, 100 x 100 ft. The capital stock will be increased from $500,000 to $800,000 to provide for the erection of the new building.

PITTSBURG, PA.—Nixon & Zimmerman, who own the Alvin Theatre, plan to erect another playhouse, and expect to begin work by Sept. 1. Plans are now being prepared.

BALTIMORE, MD.—Bids will soon be taken by the Safe Deposit & Trust Co. for a brick and iron bank building at 13 South St., to be fireproof in construction and to cost $150,000. Baldwin & Pennington are Archs., 44 South St.——Geo. Archer, Arch., Central Savings Bank Bldg., has plans under way for a 4-story fireproof apartment house for a company represented by Geo. C. Morrison, 721 Equitable Bldg. It will cost $50,000.——The Maryland Biscuit Co. has been issued a permit to erect a 6-story bakery building on Conway St., between Sharp and Hanover Sts., 134 x 165 ft., to cost $50,000.

WASHINGTON, D. C.—A contract has been awarded to Richardson & Burgess, 613 14th St., N. W., for the erection of a church for the congregation of the Grace Reformed Church, to cost $50,000.

FORT MONROE, VA.—Bids are asked until June 6 for the construction of an ordnance repair shop. C. P. Townsley, Q. M.

RICHMOND, VA.—Bids are asked until June 2 for removing the present buildings and erecting an engine house at Fifth and Duval Sts. L. S. Jones, Secy. Bd. Fire Comrs.

FAIRMONT, W. VA.—The Fairmont Trust Co. is preparing plans for the erection of an 8-story office building in this place, to cost $60,000. Ellsworth Dean is Arch.

AIKEN, S. C.—It is probable that a tourist hotel will be built here before next winter. It will be erected by Mrs. Harrit Beckwith, Denver, Colo., and will cost about $300,000. J. J. Huddert, Arch., Denver, has already prepared plans.

DARLINGTON, S. C.—Bids are asked until June 5 for the construction of a 12-room school building. C. B. Edwards, Secy.; C. C. Wilson, Arch.

LANCASTER, S. C.—Bids are asked until June 3 for the erection of a 2-story school building. Chas. T. Connors, Secy. Bd. Trustees.

NEW IBERIA, LA.—Bids are asked until July 10 for the construction of the U. S. post office at this place, as stated in our advertising columns. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

NEW ORLEANS, LA.—A general overhauling of the new court and jail will shortly take place, at a cost of $40,000. Specifications for the work are now being prepared by the city engineer.

EDDYVILLE, KY.—Bids are asked until June 4 for the construction of a cell house. H. P. McDonald, Arch., 217 Fifth St., Louisville.

CINCINNATI, O.—The plans for a new skyscraper to be erected by M. E. Ingalls, Pres. C., C., C. & St. L. R. R., at Fourth and Vine Sts., have been completed by Eizner & Anderson, Archs. It will be 15 stories, 160 x 50 ft.

CLEVELAND, O.—Bids are asked until June 23 for the construction of a 4-room brick school in South Brooklyn village school district. Geo. W. Huhn, Clk. Bd. Education.

COLUMBUS, O.—Plans are being prepared by Stribling & Lum, Archs., for a 6-story brick business block to be built at Spring and Third Sts. by E. E. Beckett and Harvey Cockett. The plot is 100 x 187 ft.——An addition to the workhouse, estimated to cost $56,000, will be built.

JERUSALEM, O.—Bids are asked until June 16 for the erection of a brick school building along the Jerusalem Stone Road. August W. Tauk, Township Clk.

MARTIN'S FERRY, O.—Bids are asked until June 2 for the erection of a Welsh Congregational church. R. T. Williams, Box 148, may be addressed.

INDIANAPOLIS, IND.—A new sanitarium will be built at the corner of Market St. and Highland Ave. by the corporation conducting the W. B. Fletcher Sanitarium, at a cost of $65,000. The building will be four stories high.

MUNCIE, IND.—Williams & Andrews, Dayton, O., will prepare plans for the new 4-story Commercial Club building to be erected here in the near future, at a cost of $50,000.

ANN ARBOR, MICH.—Plans have been completed by Mason & Kahn, Archs., for the engineering building for the University of Michigan.

CHICAGO, ILL.—Otto Young has purchased the property at the northwest corner of State and Lake Sts., and will erect thereon a 4-story building.——The committee on sites of the board of education has recommended new school buildings and additions as follows: 12-room building, 15th Ave., near Lomax Place, to cost $70,000; a 12-room building at Park and 50th Aves., on a lot 300 x 150 ft., to cost $70,000; a 24-room building at Lawndale Ave. and Polk St., cost undetermined; an 8-room building at 50th St. and Washtenaw Ave., cost undetermined; a 9-room building on a 300-ft. lot at 106th and Fulton Sts., to cost $75,000; a 24-room building, with assembly hall, on a lot 300 ft. front, at 114th St. and Morse Ave., to cost $100,000; a 9-room addition to the Pickard School, 21st Place and Oakley Ave.; west wing to the Normal School, to cost $325,000; an 8-room addition to the Taylor School, in South Chicago; a 12-room addition to the Hedges School, 48th St. and Winchester Ave., to cost $100,000; a 6-room addition to the Harvard School, Harvard and 75th Sts., to cost $40,000; a 6-room addition to the Emerald School, to cost $40,000; a 12-room addition to the William Penn Nixon School, cost undetermined.——Plans have been filed by Telford & McWade for ten 4-story brick apartment buildings at 1632-34 Graceland Ave., to cost $500,000.——The city of Chicago has taken out a permit to erect a 1-story library building at 49th St and Lake Ave. The building will be a branch of the Chicago Library, and is the gift of Mrs. T. B. Blackstone. Work on the new structure, which will cost $150,000, will start at once.

CLIFTON, ILL.—Bids are asked until June 5 for the construction of a 2-story 6-room school. Peter Wright, Pres. Bd. Directors.

MILWAUKEE, WIS.—The plans prepared by Geo. C. Ehlers, Arch., 515 Garfield Ave., for the new 20th district primary school, to be built on Auer Ave., between 24th and 25th Sts., at a cost of $55,000. The building will be three stories.

MILWAUKEE, WIS.—A permit has been issued to John Hunholtz for erecting a $40,000 flat building on Cass St., between Oneida and Mason Sts.

LAKE CRYSTAL, MINN.—Bids are asked until June 5 for the erection of a 2-story brick addition to a school house in School District No. 15, Lake Crystal. W. P. Cobb, Secy. School Bd.

ST. PAUL, MINN.—A building permit has been issued to O'Neil & Waldon for the erection of a 6-story flat building on Dayton Ave., between Summit and Farmington Sts., to cost $60,000.

FORT RILEY, KAN.—Bids are asked until June 10 for the construction of several barracks buildings at Fort Riley. Capt. G. O. Cress, Constructing Q. M.

BUTTE, MONT.—The Butte labor unions will erect a labor temple in this city, at a cost of $70,000.

KALISPELL, MONT.—Bids are asked until June 17 for the construction of a 2-story jail and jailer's residence. W. H. Griffin, Chn. Bd. County Comrs.

KANSAS CITY, MO.—Chas. W. Armour will erect a business building at 306-10 West Eighth St. The estimated cost of the structure, which will be five stories high, is $80,000.

ST. LOUIS, MO.—The contract for the building at Seventh St. and Washington Ave. has been let to the Westlake Construction Co. The building will be [illegible] stories, 147 x 89 ft., and will cost about $100,000.——Architectural sketches of the Building of Religions at the World's Fair have been made, and show a structure [illegible] 400 ft., costing $300,000.——Weber & Groves, Archs., are planning a stable for the Simmons Hardware Co. on [illegible] lede Ave., to be two stories high, and to cost $40,000.

TRENTON, MO.—Bids are asked until July 7 for the erection of the new jail and sheriff's residence and court house for Grundy county, to cost $60,000. John W. [illegible] ler, County Clk.; Holland & Squires, Archs.

HARRISBURG, ARK.—Bids are asked until June 16 for the erection of a brick jail building for Poinsett county. E. Couch, Chn. Jail Comn.

LA PORTE, TEX.—Local papers state that among the improvements planned for Harris county is a new court house to replace the present structure, which is more than 20 years old. The old building cost $250,000.

DENVER, COLO.—Leon Coquard, Arch., has completed the designs for the new Catholic cathedral, to be erected in this city. The edifice will be 190 x 120 ft., and will have two spires reaching a height of 270 ft.

IDAHO SPRINGS, COLO.—The council has indorsed an ordinance for the furnishing of city water to the new hotel to be erected by N. C. Merrill for 95 years without cost, provided that the hotel shall cost $100,000 and that work shall begin within one year and be completed within three years.

ALAMEDA, CAL.—The trustees have approved the plans for the new high school building, to cost $50,000. Bids for the building will be opened June 9.

LOS ANGELES, CAL.—The Chamber of Commerce will issue bonds to the amount of $75,000 with which to erect a building on Broadway, to be five stories high. F. H. Story is Pres.

NAPA, CAL.—The St. Helena Improvement Co. has been incorporated by J. S. Noble, S. F. Kettlewell and B. Brusk, to build a hotel at St. Helena, to cost $100,000.

SAN FRANCISCO, CAL.—The Palace Hotel is to have two stories added, the improvement to cost $300,000. The hotel is owned by the Sharon Estate Co.——The Associated Property Owners of San Francisco will erect an apartment house on Pine St., between Leavenworth and Hyde Sts., at a cost of $125,000. C. B. Bishop and D. M. Watson are interested. Albert Sutton is the Arch.

STANFORD UNIVERSITY, CAL.—Chas. E. Hodges, Arch., has completed plans for the new gymnasium, to cost about $250,000.

VALLEJO, CAL.—The following bids were received by M. T. Endicott, Ch. Bureau Yds. & Docks, Navy Dept., Washington, D. C., on May 24, for the construction of a brick and steel joiner shop for construction and repair at the Mare Island Navy Yard: (1) building complete; (2) omits one bay; (2a) omits two bays: Penn Bridge Co., Beaver Falls, Pa., (1) $104,800, (2) $94,940, (2a) $88,600; Wm. N. Concanon, San Francisco, (1) $99,698, (2) $92,298; Clark & Henry, Stockton, Cal., (1) $91,900; Wm. N. Healy, San Francisco, (1) $98,103, (2) $89,834; Cotton Bros. & Co., Oakland, Cal., (1) $102,336, (2) $92,216.

SALT LAKE CITY, UTAH.—The contract for the new business block for David Keith on Main St. has been let to George Curley at $52,000.

OTTAWA, ONT.—The board of trade has under consideration the matter of building a new building for which $30,000 will be expended.

WATER-WORKS.

KEENE, N. H.—Bids are asked until June 14 for furnishing the materials and for constructing a masonry dam on Roaring Brook in Roxbury, N. H., as stated in our advertising columns. N. G. Gurney, Chn. Com.

MANCHESTER, N. H.—The water commissioners propose to build a canal 1,400 ft. long and a penstock for the reservoir at Manchester Center.

ADAMS, MASS.—This place has voted to issue $30,000 in bonds for extending the water mains. F. N. Chase writes us that bids for the work will not be wanted for probably two or three weeks.

BROOKLINE, MASS.—We are informed that the matter of building a covered reservoir for the town has been postponed pending investigations of a special committee. J. A. Forbes, Water Registrar.

FORT REVERE, MASS.—Bids are asked until 11 a. m. May 29 for a water tower, standpipe, pump and boiler house, installing machinery, etc. A. M. Palmer, Depot Q. M., U. S. A., 170 Summer St., Boston.

FOXBORO, MASS.—The water commissioners have been directed to buy a new pump and engine, to cost $2,500.

GLOUCESTER, MASS.—Bids will probably soon be asked for constructing a new dam at Hashell Pond, to cost about $60,000. Mayor French has awarded the $60,000 of 30-year 3½% water bonds to N. W. Harris & Co. Address Councilman Jere Foster.

LAWRENCE, MASS.—The state board of health has advised the water board to install a new water filter.

MELROSE, MASS.—Bids are asked until May 31 for 100 ¾-in. galvanized-iron nipples, 100 ¾-in. galvanized-iron unions, 50 1 x ¾-in. galvanized-iron bushings, 50 1 x ¾-in. galvanized-iron elbows, 100 ¾-in. galvanized-iron elbows, 100 ¾-in. galvanized-iron tees, 100 1 x ¾-in. galvanized-iron couplings, 150 ¾-in. composition tee tops for iron pipe, 100 ¾-in. composition lever stops for iron pipe, 400 ¾-in. composition corporation stops for cast-iron pipe, 1,000 ft. ¾-in. tin-lined pipe, 25 tin-lined elbows, 25 tin-lined unions, 25 tin-lined tees, 25 tin-lined elbows, 25 tin-lined nipples, 25 tin-lined couplings, 14 6-in. bell end extra heavy high pressure gates, 11 8-in. bell end extra heavy high pressure gates, 4 12-in. bell end extra heavy high pressure gates, 3 16-in. bell end extra heavy high pressure gates, 1 20-in. bell end extra heavy high pressure gate (all tested to 300 lbs.), 6 6-in. hydrants, 1 steamer and 2 hose outlets, and also 250 tons of water pipe, the latter advertised in Engineering News. W. D. Hunter, Engr. and Supt.

ONSET BAY, MASS.—The Onset Bay Water Co. has decided to increase its capital to $50,000 for extending the works.

SHREWSBURY, MASS.—The question of a better water supply is being considered. Address Edward L. Knowlton.

PROVIDENCE, R. I.—O. F. Clapp, Cy. Engr., writes us that the commissioner of public works has been directed to contract for the building of a natural or slow-sand filtration plant at Pettaconset for filtering the water supply. The money has been appropriated for the same.

BRANFORD, CONN.—Wm. Sperry, of New Haven, is reported to have completed plans for extending the works of the Branford Light & Water Co.

ALEXANDRIA BAY, N. Y.—The question of building gravity works is being considered.

ANGOLA, N. Y.—This place voted May 24 on the question of issuing bonds for works, to include a standpipe 18 x 100 ft., 630 tons of pipe, etc.

CARTHAGE, N. Y.—P. R. Wray, Pres., writes us that the engineer will probably report in about two weeks on the matter of securing a new water supply about 16 miles distant. Jas. P. Brownell is Engr.

FORESTPORT, N. Y.—Bids were asked by the state department of public works, Albany, N. Y., May 26 for reconstructing a dam at the Forestport reservoir, to cost about $45,000.

KENMORE, N. Y.—This place has voted to issue $20,000 in bonds for water-works, the water supply to be secured either from Tonawanda or Depew.

LYONS, N. Y.—The question of owning the works is reported as being considered.

NASSAU, N. Y.—The question of works is being considered.

NORTHVILLE, N. Y.—Bids are asked until June 2 for tapping water mains for two years. J. S. Barker, Clk.

NORWOOD, N. Y.—Watson B. Berry, attorney, Potsdam, N. Y., writes us that the Norwood Water Co., of which he is the nominal president, incorporated four years ago, is now negotiating for a franchise to supply the village with water. If the trustees grant the franchise, the company will advertise for bids this summer for the works, to include five miles of pipe, pumping station, standpipe, etc., to cost $35,000.

ORISKANY FALLS, N. Y.—Frank K. Baxter, of Utica, N. Y., is completing plans for the proposed works at this place.

TROY, N. Y.—Bids are asked until noon May 30 for laying about 9,000 ft. of 20-in. c.-i. water mains. John Phelan, Comr. Pub. Wks.

WHITE PLAINS, N. Y.—We are informed that the report in our last issue, stating that the N. Y. Interurban Water Co. intends to make certain improvements, etc., is entirely incorrect. The above company is operated by the American Pipe Mfg. Co., 112 North Broad St., Philadelphia, Pa., and of which J. W. Ledoux is Ch. Engr.

CALDWELL, N. J.—J. J. Van Orden, Clk., writes us that the following bids were received May 12 for constructing works: L. J. Richardson Co., Owego, N. Y., material and construction (pipe, hydrants, valves and boxes), $20,569; R. D. Wood & Co., Philadelphia, Pa., all material, $14,371; Warren Pipe & Foundry Co., New York city, pipe, $11,756; R. D. Wood & Co., Philadelphia, Pa., pipe, $12,031; United States Pipe & Foundry Co., Philadelphia, Pa., pipe, $12,093; Sweet & Doyle, Cohoes, N. Y., valves and boxes, $1,028; Darling Pump Mfg. Co., Williamsport, Pa., hydrants, valves and boxes, $2,327; R. D. Wood & Co., Philadelphia, Pa., hydrants, etc., $2,340; Eddy Valve Co., Waterford, N. Y., hydrants, etc., $2,395; Kennedy Valve Mfg. Co., New York, N. Y., hydrants, etc., $2,514; Ludlow Valve Co., New York, N. Y., hydrants, etc., $2,715; Robt. W. Smith, Caldwell, N. J., construction, $6,021; R. H. Kirnan, South Orange, N. J., construction, $6,886; Ludwig Batt, South Orange, N. J., construction, $6,914; Salmon Bros. & Richards, Dover, N. J., construction, $6,933; P. T. Plunkett, Jersey City, N. J., construction, $7,788. Contracts were awarded to the Warren Pipe & Foundry Co. for pipe, to the Eddy Valve Co. for hydrants, to the Darling Pump Mfg. Co. for valves and boxes and to Robt. W. Smith for construction.

DOVER, N. J.—W. G. Fritz, of Lancaster, Pa., has been awarded the contract for building new works here. The itemized bids were given in our last issue.

MERCHANTVILLE, N. J.—The question of building its own works is being considered.

NEWARK, N. J.—The water department has completed plans for extending the water mains in the new annexed district of Clinton township.

PATERSON, N. J.—The council has asked for bids until May 31 for furnishing two new boilers for the water-works. Councilman Lagger, Chn. Water Com.

ERIE, PA.—The water commissioners are considering the matter of buying a new pump.

McKEESPORT, PA.—The water commissioners have recommended the purchase of ground for new 20,000,000-gallon reservoirs and the construction of the same. Wm. Evans is Pres. Water Bd.; T. H. Verner is Supt.; Saml. Strong is Ch. Engr.

MONACA, PA.—Geo. McFall, of Beaver Falls, Pa., has been awarded the contract, at $11,690, for extending the works.

RIDGEWAY, PA.—Bids are asked until June 5 for constructing works, as described in our advertising columns. W. W. Barbour, Secy. Council; J. F. Wilmer, Engr., Chapin Block, Buffalo, N. Y.

WILKINSBURG, PA.—The Pennsylvania Water Co., which supplies Wilkinsburg and vicinity, was completely reorganized May 21 and extensive improvements were planned. The interests of Jas. H. and Geo. R. Harlow were purchased by the Mellons, and they have retired from the company. R. B. and W. L. Mellon were elected to fill the vacancies on the board of directors, and A. W. Mellon, who was a member of the board, was chosen President. Eight subsidiary companies were absorbed, and arrangements made for expending about $1,000,000 or more if necessary to provide a new filtering system, new reservoir, new pipes and other improvements. W. C. Hawley, formerly Supt. Water-Works at Atlantic City, has been appointed Superintendent in place of W. A. Alexander. Geo. S. Davison was elected Consulting Engineer of the company and Jas. G. Storer Secretary.

FORT DUPONT, DEL.—Bids are asked until June 3 for sinking an artesian well. F. Marsh, Q. M., U. S. A., Delaware City, Del.

ELKLAND, MD.—We are informed that the borough board has instructed the clerk to arrange for specifications for the proposed works and wishes to be put in communication with contractors, engineers, etc. Pop., 1,400.

SALISBURY, MD.—The Salisbury Water Co. proposes to improve its works.

FRONT ROYAL, VA.—This place has voted to issue $30,000 in bonds to purchase the works.

FORT CASWELL, N. C.—Bids are asked until June 14 for constructing works, to include a 60,000-gallon steel tank on trestle, pumping plant, mains, etc. T. W. Hollyday, Q. M., U. S. A.

KERSHAW, S. C.—W. B. Moore, Yorkville, S. C., and J. S. Moore, of Atlanta, Ga., have been awarded the contract, at about $10,000, for constructing works.

PRATT CITY, ALA.—The Southern Industrial Co. has purchased the works owned by this city for $50,000, according to reports.

PRATT CITY, ALA.—The council is considering the question of purchasing the works by assuming the debts and paying $50,000 in cash.

SHEFFIELD, ALA.—Press reports state the water tank of the water-works was demolished May 20.

RAYMOND, MISS.—This place is considering the question of building works and an electric plant.

EUNICE, LA.—The question of works is being considered, according to reports. Address Councilman Derkes.

CINCINNATI, O.—Bids are asked until June 5 for furnishing water pipe, castings, etc., as stated in our advertising columns. Geo. F. Holmes, Clk. Bd. Pub. Service.

DAYTON, O.—Bids are asked until June 27 for furnishing two 200-HP. Scotch marine boilers, with Morrison corrugated furnaces. Chas. E. Rowe, Secy.

HAMILTON, O.—R. N. Andrews and J. A. Yingling Sons have been awarded the contract, at $6,392, for repairing the intake pipe.

LANCASTER, O.—Bids are asked until June 2 for 3,000 ft. of 4-in. water pipe. Geo. Cunningham, Secy. Trustees.

NILES, O.—The question of improving the works is being considered.

PIQUA, O.—W. P. Orr, Pres. City Council, is securing information regarding proposed extensions to the works.

UPPER SANDUSKY, O.—Reports state that the works here have been sold to a Pittsburg company, who will make improvements. W. R. Moore is Pres.; G. B. Fendley is Treas.

WHITEHOUSE, O.—E. R. Sly, Mayor, writes us that nothing certain regarding works has yet been decided upon. Pop., 600.

KEWANNA, IND.—This place is considering the question of building works and an electric plant.

SUMMITTVILLE, IND.—Wm. Ouerman, of Marion, Ind., is reported to be preparing plans for works.

ARMADA, MICH.—Bids are asked by the village clerk until June 2 for constructing works. Field & Hinchman, Engrs., 1206 Majestic Bldg., Detroit, Mich.

PONTIAC, MICH.—It is stated that Field & Hinchman, of Detroit, have prepared plans for extending the works for the Eastern Asylum, at a cost of $9,000.

JOLIET, ILL.—Bids are asked until May 31 for the purchase of two new boilers for the water-works. Address Superintendent Sampkins, of the W.-W.

LINCOLN, ILL.—The Lincoln Water, Light & Power Co. is reported to have begun work on the proposed improvements to the works.

MOUNT STERLING, ILL.—J. M. Murphy, ex-Mayor, writes us that the town expects to put in a new 50,000-gallon tank, etc.; pop., 2,500.

RANTOUL, ILL.—The question of improving the works for better fire protection is being considered. Address H. B. Goff and N. R. Maus.

WESTVILLE, ILL.—This place proposes to build works and a city hall. Address Mayor Taylor.

CADOTT, WIS.—Reports state that I. W. Gray, of Manitowoc, Wis., and P. E. Maxey, of Oshkosh, Wis., propose to build works here. Pop., 3,000.

CAMERON, WIS.—Bids are asked until June 6 for constructing works. Loweth & Wolff, Engrs., First National Bank Bldg., St. Paul, Minn.; John Tester, Pres.

JEFFERSON, WIS.—This place has voted to issue $7,500 in bonds for works, according to reports.

DEEP RIVER, IA.—The council is reported to have rejected the bids for constructing works.

DES MOINES, IA.—The council has passed a resolution authorizing the issuance of $50,000 in bonds for extending the mains of the Des Moines Water Co. to the army post. Maj. R. B. Turner, Constructing Q. M., U. S. A., informs us that the following bids were received May 22 for works and sewers, (1) being for the fence, (2) for grading, (3) for sewers, (4) for water-works, all of Des Moines except Sprague, of Chicago, and Griffiths Co., of St. Louis: M. V. Kennedy, (3) $17,699; W. D. Lovell, (3) $38,490, (4) $12,847; Capital City Brick & Pipe Co., (3) $17,033; E. Van Dyck & Co., (3) $18,304; O. P. Herrick, (2) $10,725, (3) $14,963, (4) $12,484; Likes Improvement Co., (2) $13,800, (3) $15,348, (4) $14,409; Des Moines Bridge & Iron Works, (4) $13,139; Charles S. Denman, (4) $16,270; A. W. Sprague, (1) $6,435; Griffiths Iron Works Co., (1) $6,466; Michael H. King, Jr., (2) $16,200; E. A. Harris, (2) $16,800; P. I. Nelson, (2) $19,800.

NORTH ENGLISH, IA.—This place will soon vote on the question of issuing $5,000 in bonds for works.

WINONA, MINN.—Bids are asked by the city clerk until June 9 for the purchase of $50,000 of water bonds.

PIERCE, NEB.—Bids are asked until June 2 for the purchase of $9,800 of 4% bonds for building works, advertised in our columns. L. R. Hertert, Clk.

LEWISTOWN, MONT.—Bids are asked until June 21 for constructing works to cost $20,000. E. P. Chandler, Cy. Clerk.

MILES CITY, MONT.—Bids are asked by the city clerk until Aug. 1 for the purchase of $15,000 of 5% bonds for improving the works.

CUSTER, S. DAK.—Geo. B. High has been awarded the contract for works. W. D. McFadden has been granted franchises for an electric plant and a telephone system.

CARTHAGE, MO.—Bids are asked until June 23 for constructing works. R. Lundy, Cy. Clk.

FAYETTE, MO.—This place will vote May 31 on the question of issuing $5,000 in bonds for works.

BISBEE, TEX.—The Bisbee West Mining Co. has been granted a franchise for works.

HICO, TEX.—This place has voted to issue $6,750 in bonds for works.

McKINNEY, TEX.—This place has decided to issue $12,000 in bonds for works, according to reports.

PLANO, TEX.—Bids are asked until May 30 for boring an artesian well for an increased water supply. Jos. Bradshaw, Cy. Secy.

ROCKWALL, TEX.—This place has voted to issue $12,000 in bonds for works.

CHICO, CAL.—Bids are asked until May 31 for a pumping station, wells, mains, etc., and until June 2 for three water towers, for street sprinkling. Richard White, Cy. Clerk.

SAN FRANCISCO, CAL.—The Stanislaus Water & Power Co. has been incorporated with a capital of $2,500,000 by W. Frank Pierce, of Oakland, Cal., and J. E. Green, of San Francisco, and H. G. Veede, of Pittsburg, Pa.

VALLEJO, CAL.—Bids are asked until June 2 for 45,500 ft. of water mains, etc. T. J. O'Hara, Cy. Clk.

MONTREAL, QUE.—Bids are asked until June 4 for the purchase of $2,000,000 of 3½% 40-year bonds for use in improving the water-works, etc. W. Robb, Cy. Treas.—John McDougall & Co. have been awarded the contract at $40,425 for furnishing an electric pump, as noted last week.

SEWERAGE.

BREWER, ME.—P. H. Coombs, C. E., Bangor, Me., has submitted to the council two plans for the Washburn Brook sewer. One plan calls for 589 ft. of 4½-ft. sewer, at an estimated cost of $3,000, while the other calls for 1,225 ft., at a cost of $6,000.

BOSTON, MASS.—Bids will be received by the Metropolitan Water and Sewerage Board until June 12 for building part of section 49 of high-level sewer in Quincy, as is stated more fully in our advertising columns.

EVERETT, MASS.—The issuance of $15,000 of sewer bonds has been authorized.

MELROSE, MASS.—The legislature has been petitioned by this city for the right to issue $100,000 of bonds for a surface drainage system and $50,000 of bonds for improving the water system.

QUINCY, MASS.—The sewer commissioners have asked for an appropriation of $80,000 for the extension of the main sewer to Quincy Point and for the construction of lateral sewers.

WATERBURY, CONN.—The contract for the construction of the Little Brook storm-water conduit has been let to Chatfield & Chatfield, for $2,009. The contract for the construction of storm-water conduits on Fifth and other streets has been let to Pasquale Conialdi, at $8,602.

ALBANY, N. Y.—Bids are asked until June 2 for constructing 400 ft. 12-in. vitrified pipe sewer in Bradford St., 2,700 ft. 10, 12 and 15-in. sewer in Central Ave., and a 36-in. circular brick sewer in Benjamin St.; also for grading, curbing and paving Colonie St. Isidore Wachsman, Clk. Bd. Contract and Supply.

BROCKPORT, N. Y.—This village has voted in favor of installing sewerage.

COHOES, N. Y.—Bids are asked until June 4 for the construction of 3,057 ft. 20-in. pipe sewer, two manholes, etc., as is stated in our advertising columns. Wm. J. Elliot, Clk. Pub. Impt. Comn.

DERRY, N. Y.—The contract for the construction of the sewer system extension has been let to the Osgood Concrete & Sewer Building Co., Nashua, N. H. A. W. Dudley is the engineer in charge.

ROME, N. Y.—Plans and specifications have been made for a sewer system of a total length of 2,452 ft. for the County Home. There is to be 350 ft. of 15-in. main pipe sewer, 447 ft. 10-in., 721 ft. 8-in. and 534 ft. 4-in. pipe sewers. M. Whalen, Rome, N. Y., is Supervisor of County Buildings.

WATERTOWN, N. Y.—Steps have been taken for the construction of new sewers in Mullin, West Ten Eyck, Gotham and Munson Sts., at a total cost of about $5,700.

MORRISTOWN, N. J.—A commission has been appointed to recommend a system of sewers for this city. Robt. D. Foote is Chn. of the Comn.

NEWARK, N. J.—The contract for the construction of the second section of the joint outlet sewer has been let to the Harrison Construction Co., of this city, for $79,349. A detailed list of the bids received for this work was given in our last week's issue.

CHARLEROI, PA.—Bids are asked until June 2 for laying 8-in. sewer in various streets. Ira L. Nickeson, Boro. Clk.

HAZLETON, PA.—B. E. Youngman, Boro. Engr., writes us that 6,100 ft. of 15, 18, 24 and 30-in. pipe sewer, average cut 12 ft., is to be laid. The estimated cost of the system is $30,000, and it will be composed of the following items: 3,000 ft. small open channel sewers, 470 ft. stone arch sewer 6½ ft. high; also the following terra cotta pipe sewers: 500 ft. 30-in., 2,500 ft. 24-in., 2,500 ft. 18-in., 600 ft. 15-in.

LANCASTER, PA.—It is reported that a special election is to be held in two months regarding a bond issue for the construction of a combined sanitary and storm sewer. It is also reported that bids are to be called for in July for about $10,000 worth of terra cotta sewer work. Israel Carpenter is Cy. Engr.

MORGANTOWN, PA.—According to reports, this place is to spend $15,000 for sewerage.

SCRANTON, PA.—Joseph P. Phillips, Ch. Engr. Dept. Pub. Wks., informs us that bids are asked until June 2 for the following sewer work: Section (F) sewer, 4,640 ft., estimated to cost $17,165; section (A) sewer, 3,400 ft., $6,610; sewer in Webster Ave., Kellum Court, etc., 4,080 ft., $11,778; sewer in Wyoming Ave., Ash St., etc., 3,030 ft., $7,430.

SPRING GROVE, PA.—The question of sewerage is being agitated.

WASHINGTON, D. C.—Bids will be received by the district commissioners until June 14 for constructing and repairing sewers in the District of Columbia, and until June 20 for the construction of a portion of the low area trunk sewer, all of which is stated more fully in our advertising columns.

FAIRMONT, W. VA.—The question of issuing $88,000 sinking fund, water and sewer bonds will be voted on June 7.

PARKERSBURG, W. VA.—The City Clerk has been ordered to call for bids for constructing 15-in. sanitary sewer in 13th St.; city engineer's estimate of cost, $5,600.

BIRMINGHAM, ALA.—Bids for the construction of the trunk sewer system of the Jefferson county sanitary district have been received by the commission. The work was divided up into sections, and separate bids were submitted on each section, as follows: C. M. Burkhalter & Co., No. 1, $30,694; No. 2, $21,588; No. 3, $19,959; No. 4, $20,666; No. 5, $25,460. Dunn & Lallande Bros., No. 1, $40,079; No. 2, $28,428; No. 3, $26,512. Doneison Construction Co., No. 6, $24,755; No. 7, $27,061; No. 8, $32,797; No. 9, $23,643; No. 10, $17,121. Lightning & Butler, No. 7, $34,704; No. 8, $42,665; No. 9, $29,076. Pennington Construction Co., No. 11, $24,443; No. 12, $32,174; No. 13, $21,008; No. 14, $20,555; No. 15, $24,587. Southern Paving & Construction Co., No. 12, $34,929; No. 13, $22,515. The commissioners passed a resolution refusing to act on the bids, and referred the matter to the construction committee, who will probably reach a decision at the June meeting.

NEW ORLEANS, LA.—According to reports, general specifications for the sewerage pumping machinery have been prepared, but these, as well as the other specifications, will require careful reviewing before being adopted.

MARION, O.—Ed. S. Ault, Cy. Engr., informs us that the following bids were received May 25 for constructing the Commercial St. sewer: Hofstetter & Dawson, Marion, $3,178; Joe Murphy, Marion, $2,465; H. Hoyler, Marion, $2,497; Brady & O'Connell, Marion, $2,556. We are also informed that the lowest bidder for constructing the East Church and Sargent St. sewers was Hofsetter & Dawson, at $679 and $415 respectively.

SPRINGFIELD, O.—W. H. Sieverling, Cy. Civil Engr., according to local press reports, has prepared plans and estimates for a proposed new sewer route in the southwestern section of the city.

TOLEDO, O.—City Engineer Tonson has prepared estimates showing the cost of the proposed new sewer district to be $63,000.

WINCHESTER, IND.—Bids are asked until June 4 for the construction of a lateral sewer in North St. S. D. Fox, Cy. Clk.

JACKSON, MICH.—A contract has been let to P. Casey & Co. for $40,000 for the construction of intercepting sewers along the river.

WYANDOTTE, MICH.—A special election is to be held to vote on the issuance of bonds for a system of sewers.

PEORIA, ILL.—A local press report states that the matter of the East Bluff sewer system will very likely be brought before the improvement board in a short time, as City Engineer Beasley has completed the field survey. About 1,100 acres will be drained by the system.

BOONE, IA.—Bids are asked until June 7 for constructing a drain in Jackson, consisting of about 6,000 ft. of 10, 12 and 15-in. tile sewer. A. M. Burnside, Co. Audr.

GRINNELL, IA.—Mayor H. W. Spaulding writes us that the matter of a sewerage disposal plant is being considered, but that up to May 19 nothing had been done in regard to plans or specifications. Beth Jenkins, Chn. Sewer Com.

BURLINGTON, IA.—A sewer to cost about $28,000 has been ordered for the Stoney Lonesone Run.

DES MOINES, IA.—The board of public works has been instructed to advertise for bids for the Highland Park sewer system.

MONTICELLO, IA.—The contract for the construction of the proposed sewer system has been let to R. C. De La Hunt, Cedar Rapids, Ia., at $4,526.

ROCKWELL CITY, IA.—Bids are asked until June 17 for furnishing and laying about 16,000 ft. 8, 10, 12 and 18-in. vitrified sewer pipe, 15 manholes, three flush tanks and disposal plant. Clayton C. Riley, Co. Audr.

GROTON, S. DAK.—This place is considering the question of sewerage.

GRAFTON, N. DAK.—Bonds for sewerage and paving were favored at a recent mass meeting.

BILLINGS, MONT.—A. A. Morris, C. E., has been appointed superintendent of construction of all the new sewer systems to be put in at the Crow and Pryor Indian agencies this summer.

GREAT FALLS, MONT.—W. A. Remington, Asst. Cy. Engr., writes us that five blocks of 9-in. D. S. V. sewer has just been completed, and that it is quite likely that the city will build as much more this season, although the work has not yet been ordered.

CLAYTON, MO.—H. D. Wyllie, Chicago, has offered to erect a septic sewage reduction tank in this place for $2,750, and it is quite likely that his proposition will be accepted by the county court.

KANSAS CITY, MO.—Local press reports state that the city engineer has been ordered to readvertise for the construction of the joint sewer starting at 27th St. and Benton Boulevard. The report states the contract for this work had been awarded to Geo. J. Baer at $91,965, but on the advice of his attorney he forfeited the contract.

HELENA, ARK.—A press report states that Col. Theo. Hartman, Little Rock, Ark., has been appointed to superintend the rebuilding of the sewers in this city.

CHICO, CAL.—The trustees have adopted plans and specifications for a pumping plant and laying water mains for a flushing system for the sewers, and Clerk White has been authorized to receive bids until May 31.

EUREKA, CAL.—The council has adopted a recommendation of a special committee that all bids for the sewer system be rejected and new bids called for until not later than July 10. The committee also recommend that plans and specifications be completed not later than June 1, and that the cost of the system should not exceed $80,000.

HEALDSBURG, CAL.—Trustee Engineer Richardson, of San Rafael, has prepared plans for the proposed sewer system for this city.

OAKLAND, CAL.—Plans for the reconstruction of the intercepting sewer below 3d St., at a cost of about $2,500, have been made by Street Superintendent Ott.

SAN DIEGO, CAL.—The question of submitting to a popular vote the matter of bonds for the repair and improvement of the sewer and water systems has been before the council.

SANTA ROSA, CAL.—J. W. Keegan, Chn. Sewer Com., under date of May 17, writes us that the city is installing a septic tank for the reduction of the sewage.

LEWISTON, IDAHO.—We are informed that the question of a sewer system, to cost about $30,000, is being agitated here, and that the contract for the work will possibly be let about July 1. Ernest McCullough is Cy. Engr.

TRURO, N. B.—The work of extending the sewer system, for which $12,300 was recently voted, has been put in charge of C. G. McDowell, Supt. W.-W., and will be immediately hurried to a completion.

STREETS AND ROADS.

FITCHBURG, MASS.—The council has ordered that Ridge St. be built and the matter is now in the hands of the street commissioners. The total cost of the work is estimated at $11,714.

TEMPLETON, MASS.—An appropriation of $4,800 has been made for this place for state road work.

WESTFIELD, MASS.—There is some prospect that South Maple St. may be macadamized, the cost to come out of the $25,000 recently voted for highway work.

BRANFORD, CONN.—Bids are asked until June 9 for constructing 7,000 sq. ft. vitrified stone sidewalk. Wm. R. Foote, Boro. Clk.

NEW HAVEN, CONN.—The contract for paving Putnam Ave. with crushed stone has been let to Frank Brazos, at 56 cts. a sq. yd. The work will cost $6,000.

POMFRET, CONN.—Bids are asked until May 31 for constructing Telford road in this town. Herbert Sharp, Selectman.

GENEVA, N. Y.—Bids are asked until June 12 for about 12,000 cu. yds. excavating, 11,000 ft. curb set in concrete, 8,000 sq. yds. macadam, 10,000 sq. yds. brick pavement on concrete and various other items, as is stated in our advertising columns. W. S. Wood, Clk.

GLENS FALLS, N. Y.—Bids are asked until June 13 for cleaning, grading and concrete on line from South Glens Falls to Saratoga, as is stated in our advertising columns. Crescent Construction Co.

LAWRENCE, N. Y.—At a special meeting an appropriation of $10,000 was voted for grading and macadamizing the streets.

OXFORD, N. Y.—Estimates for the proposed paving in this village have been made. According to the survey, about 5,200 sq. yds. of brick paving will be needed. The total cost of the paving is estimated at $11,990.

SOUTHAMPTON, N. Y.—The question of issuing $200,000 of road bonds is to be voted on June 22.

TROY, N. Y.—Bids are asked until May 30 for laying 8,300 sq. yds. brick pavement on 6-in. concrete foundation on Seventh Ave. Jas. M. Riley, Clk. Bd. Contract and Supply.

ELIZABETH, N. J.—Bids are asked until June 2 for grading, curbing and flagging in Broadway. M. K. Thompson, St. Comr.

NEWARK, N. J.—The street committee of the board of works has recommended that Central Ave., between High and Burnet Sts., be repaved with granite block; that ordinances for the paving of South Sixth St. with brick or asphalt and Frederick St., Bank St. and 12th Ave. with granite be passed, and that bids be received June 5 for the paving of Morris Ave., Cutler St., Library Court, Aqueduct St. and Warren St.

WASHINGTON, N. J.—Bids are asked until June 6 for 6½ miles of public road macadamizing, as is stated in our advertising columns. A. W. Cutler, Dir. Bd. Freeholders.

BUTLER, PA.—Bids are asked until June 3 for grading, curbing and paving of West North St. and South Elm Sts. H. E. Coulter, Secy. Town Council.

DUQUESNE, PA.—An issue of bonds to the amount of $70,000 has been sanctioned at a recent election. Of this amount $50,000 are for street improvements and $20,000 for sewer improvements.

NORRISTOWN, PA.—A contract for about 25,000 sq. yds. of pavement has been let to the Warren Patent Bituminous Waterproof Macadam Co. for $1.90 per sq. yd. The council also recommended that the highway committee be authorized to advertise for all kinds of vitrified brick.

JARRETTOWN, PA.—A mass meeting was held here last week to discuss the good roads question and a proposition to borrow $125,000 for macadamizing the roads of Upper Dublin township.

PITTSBURG, PA.—Bids are asked until June 4 for repairing asphalt pavements. Bonds of $15,000. J. O. Brown, Cy. Recorder.

SCRANTON, PA.—Bids are asked until June 2 for paving portions of Carbon St., Providence Road, Diamond Ave. and Court St., estimated 17,722 sq. yds. of pavement, to cost, including tile drain, basins, etc., $42,714; cost of curb, $7,509. Jos. P. Phillips, Ch. Engr.; John E. Roche, Dir. Pub. Wks.

ALEXANDRIA, VA.—An ordinance has been before the council calling for the repaving of King St. with vitrified brick, at a cost not to exceed $24,000.

ALEXANDRIA, VA.—Bids are asked until June 12 for about 8,700 sq. yds. vitrified block paving and about 4,500 ft. granite curb set in concrete, as is stated in our advertising columns. E. C. Dunn, Cy. Engr.

OWENSBORO, KY.—Bids are asked until May 31 for about 6,300 sq. yds. of macadam paving and construction of combined cement curb and gutter on Fourth St. E. B. Shifley, Cy. Engr.

CINCINNATI, O.—Bids are asked until June 2 for grading, setting limestone curb and asphalt paving of Fairfield Ave., and for brick paving on Montrose St. Bids will also be received June 4 for the improvement of Harrison Ave. and Bow St. Robert Allison, Pres. Bd.

MARTIN'S FERRY, O.—Clerk Lash has been directed to advertise for bids for setting 15,000 ft., more or less, of curbing.

SWANTON, O.—Bids are asked until June 2 for the paving of Broadway St. W. W. Geer, Village Clk.

CONNERSVILLE, IND.—Bids are asked until June 11 for the construction of about five miles of 5-ft. cement sidewalks. Karl L. Hanson, Cy. Civil Engr.

SOUTH BEND, IND.—Bids are asked until June 5 for the construction of cement curbing on Eddy and Mishawaka Sts. Arthur L. Hubbard, Pub. Wks. Dept.

BAY CITY, MICH.—The contract for paving Van Buren St., including street crossings and wings, has been let to the Ayers Asphalt Co., for $14,303.

DETROIT, MICH.—The following were the lowest bidders on several pieces of street improvement work, bids for which were opened last week: Paving Congress St. with cedar block, G. W. Winterhalter, $9,192; Myrtle St., cedar, J. Porath, $8,186; St. Albin St., cedar, Henry Merdian, $8,787; Milwaukee Ave., J. Hanley, $6,248; Piquette Ave., J. Hanley, $1,876; Smith Ave., J. Hanley, $1,759.

MANISTEE MICH.—Bids are asked until June 10 for 58,000 sq. yds. of macadam, brick or asphalt paving. W. H. Pfeiffer, Cy. Clk.

NILES, MICH.—The council has adopted a resolution to pave nine blocks on Main St. with brick.

ST. JOSEPH, MICH.—W. J. Cleary, Engr., writes us that the council will receive bids June 3 for 8,000 yds. brick paving, 7,000 yds. asphalt paving and 3,100 lin. ft. cement curb and gutter.

CHICAGO, ILL.—An ordinance has been before the council providing for the paving of North Spaulding Ave., Christiana Ave., Pierce Ave., Le Moyne St., Beach Ave., Hirsch St., Evergreen Ave., Potomac Ave. and Crystal St. The cost of this work is estimated at $120,000.

MOLINE, ILL.—The following bids were received last week for paving Seventh Ave. and 23d St.: Seventh Ave.—Barber Asphalt Co., $19,029; Conway Co., $18,885; Western Paving Co., $19,486. Twenty-third St.—Conway Co., $10,420; Barber Asphalt Co., $9,949; Western Paving Co., $9,982.

PONTIAC, ILL.—P. C. Knight, Engr., writes us that plans are being made for about 10,000 sq. yds. of brick paving.

SPRINGFIELD, ILL.—A petition for a novaculite pavement on South Grand Ave. has been approved by the local improvement board. The total cost of the work is estimated at $28,518.

BARABOO, WIS.—W. G. Kirchoffer, Consult. Engr., informs us that 4,656 ft. of cement curb and gutter are to be contracted for, bids closing June 12. About 12,000 sq. yds. macadam at an estimated cost of $9,800, is to be laid but it is likely that this will be done by the city.

FAIRFIELD, IA.—Reports state that resolutions have been adopted for 41,000 sq. yds. of paving for this summer.

MARSALLTOWN, IA.—The council has adopted a resolution ordering North Third St. paved with asphaltum.

YANKTON, S. DAK.—Bids are asked until June 5 for about 7,000 yds. grading. C. L. Lawrence, Co. Audr.

GREAT FALLS, MONT.—W. A. Remington, Asst. Cy. Engr., writes us that about three miles of streets are to be boulevarded, and are to have plank curb, sidewalks and grass plats.

HOT SPRINGS, ARK.—A press report states that congress has made an appropriation of $48,562 for the Hot Springs Reservation. Of this sum $14,000 will go for improvements and repairs on the drives.

DENVER, COLO.—Bids are asked until May 31 for grading, curbing and improving all streets and avenues within East Capitol Hill Improvement District No. 1. R. W. Speer, Pres. Bd. Pub. Wks.

SEATTLE, WASH.—The contract for paving Highland Ave. with asphalt has been let to the Alcatraz Asphalt Co. for $31,822 and $3,290 for ten-year maintenance. The contract for grading the Comstock St. district has been let to T. Ryan & Co. for $14,544, and the contract for concrete sidewalks on 25th Ave. was let to Bell & Price for $3,519.

TILSONBURG, ONT.—It is reported that the town council has decided to build a macadamized main street, at a cost of $10,000.

MANUFACTURING PLANTS.

LAWRENCE, MASS.—The United Shoe Machinery Co. has decided to erect a new shoe manufactory in this place.

SPRINGFIELD, MASS.—Plans have been completed for an addition to the plant of Smith & Wesson. The new building will be four stories, 220 × 45 ft.

BROOKLYN, N. Y.—The piano factory of Freeborn G. Smith, at Raymond and Willoughby Sts., was destroyed by fire on May 20, with a total loss of about $500,000.

BUFFALO, N. Y.—The National Corundum Wheel Co. has been incorporated with a capital stock of $50,000, and will establish a plant in this city. A site for the new works has already been secured. Millard F. Bowers is reported interested.

BUFFALO, N. Y.—W. H. Andrews, New York, has announced that negotiations have been completed for the purchase of a site for a manufactory for Pratt & Lambert, to manufacture varnish. Work upon the buildings will begin in about three months.

MASSENA, N. Y.—The Pittsburg Reduction Co., Pittsburg, Pa., has secured the right to use some of the Massena power for manufacturing purposes, and will proceed to erect a large plant here at once to reduce bauxite into pure aluminum. As stated in our last issue, the company has secured 100 acres of land just east of the canal and north of the Grass River road, where the plant will be located. It will erect five buildings, each 200 to 550 ft. long, and varying from 45 to 90 ft. in width, all of which will be built on concrete foundations with steel trusses and brick walls. These works will use to start with 12,000 electric HP. The plans and specifications have been completed by E. S. Fickes, Ch. Engr., and the site selected. It is expected to have the works completed by next April, when from 500 to 600 men will be employed.

UTICA, N. Y.—The Utica Steam & Mohawk Valley Cotton Mills Co. has decided to build another mill near its present one in West Utica, to be one story, 100 × [illegible] ft.

BURLINGTON, N. J.—A 3-story brick carpet manufacturing plant will be erected by Thos. Develonis Sons, Hancock St. and Lehigh Ave., Philadelphia, Pa., in this place. The architect has not been selected.

EAST ORANGE, N. J.—Plans have been filed for the Crocker-Wheeler Electric Co. with the Building Inspector of this city for a new factory building to be an addition to its plant at Ampere. The cost will be about $2[illegible].

NEWARK, N. J.—The General Electric Co., of Harrison, will shortly begin the erection of a 3-story brick and stone factory near its present buildings to be 150 × 62 ft. Hill & Stout are the Archs., New York.

CHESTER, PA.—Bids have been asked by the Keystone Drop Forge Co., of Chester, for a drop forge works, costing about $60,000. W. W. Lindsay is Engr.

CLAIRTON, PA.—The Clairton Steel Co., which is being formed for the purpose of erecting a mill at this place, will be allied to the Crucible Steel Co. of America.

COLUMBIA, PA.—Plans are about completed for a pipe mill works for the Susquehanna Iron & Steel Co. at this place. The plant will cost completed $300,000 and will consist of the following buildings: A 1-story steel frame, 100 × 420 ft.; two 1-story buildings, 90 × 200 ft. each; 1-story building, 30 × 156 ft., to be used for a producer gas plant; 1-story pump house, 30 × 50 ft.; 1-story boiler house, 50 × 60 ft., and a 1-story engine house, 50 × 60 ft. The plant will manufacture butt-welded wrought iron pipe from 1 to 8 inches in diameter, and is to be in operation by Jan. 1, 1903. The usual equipment for such a plant will be installed. The electrical machinery will be supplied by the Westinghouse Co., and the boilers by Babcock & Wilcox. Chas. A. Porter is Pres., Girard Bldg., Philadelphia; Danridge Cox is Res. Engr., Hotel Columbia, Columbia.

MARIETTA, PA.—The Pennsylvania Electric Co., E. L. Reinbold, Pres., contemplates erecting a plant here consisting of one steel framed building one-story high, 40 × 160 ft., and costing about $25,000.

PHILADELPHIA, PA.—The Main Belting Co. will soon award a contract for a 4-story factory building at 1217-37 Carpenter St., to cost $20,000. C. E. Rahn is Arch., 410 Walnut St.——Revised plans are being prepared by J. F. Stuckert & Son, Archs., 1421 Chestnut St., for a store and light manufacturing building, at 13th and Arch Sts., to be 12 stories high, of brick and iron and fireproof construction, costing $200,000. Severight, Greenwald & Co. 1013 Market St., will be the owners.——Cramp & Co. have received a contract for a mill building and boiler and engine house for the Crompton-Knowles Loom Works, at Glenwood Ave. and 16th St. The mill will be four stories, 60 × 300 ft. and the engine and boiler house one story, 80 × 80 ft.——Albert E. Yarnall, Arch., 14 S. Broad St., has completed plans for a factory building for George W. Lord adjoining his present factory at 2238-50 Germantown Ave. It will be five stories, 30 × 175 ft. Bids will be taken by the owner.——Geo. C. Dietrich has received a permit to build a factory for H. O. Wilbar & Sons, at Broad and New Sts. The plans, by Clark & Hubbard, Archs., call for a 5-story building, 61 × 20 ft., costing $56,000.

BALTIMORE, MD.—Preliminary plans have been completed by Holt & Shaber, Archs., Bourse Bldg., Philadelphia, for a 4-story factory building and a 2-story power house for the University Envelope & Paper Mfg. Co., in this city, to cost $50,000.——The American Can Co. has awarded a contract to C. R. Parlett, Norfolk, Va., for the erection of a can factory here at a cost of $60,000.——The Baltimore Rolling Mill Co., incorporated under the laws of Delaware with a capital stock of $200,000, has purchased a block of land near the water front, and will immediately begin the erection of a plant. The chief product of the new mill is to be bar iron. Harry Wehr is Pres.

MORGANTOWN, W. VA.—The West Virginia Plate Glass Co., capitalized at $1,000,000, is to erect a 96-pot plant near this place. F. S. Brockett, Allegheny, Pa., and George C. Sturgiss and Frank B. Corbin, Morgantown, are interested.

CHARLOTTE, N. C.—James B. Dike, Pres. American Tobacco Co., has placed orders for machinery for a $1,000,000 cotton mill to be located at the Great Falls of the Catawba River, in Chester county, S. C.

HIGH POINT, N. C.—Ed. L. Ragan has sold his interest in the High Point Trunk Co. to Mr. Oldham, who will take charge of the plant. A new 3-story structure will be erected.

ANDERSON, S. C.—J. A. Black and R. E. Ligen are interested in the plan to build a $400,000 cotton mill here for the manufacture of fine goods.

COLUMBIA, S. C.—The contract for the erection of the glass factory for the Carolina Glass Co. of this city has been awarded to Mott Wyant, of Champion & Wyant, Anderson, Ind. The contracts for the buildings are to be let soon. About $60,000 will be invested in the plant.

TUCAPAN, S. C.—The stockholders of the Tucapan Mills Co. have voted to increase the capital stock from $269,000 to $500,000, for building another plant.

AMERICUS, GA.—The Virginia-Carolina Chemical Co. has sold to the Americus Oil Co. the land and remnants of its plant here, and at an early date will erect in another portion of the city a new fertilizer plant, costing about $150,000, and employing 200 operatives.

ATHENS, GA.—The contract for the erection of the buildings for the plant of the Oconee Oil & Fertilizer Co. on Oconee St., has been let to J. W. Watson, of this city.

GRIFFIN, GA.—The Boyd-Mangham Mfg. Co. has been organized with a capital stock of $200,000, and will put up a 10,000-spindle cotton mill, as soon as possible. The location is not definitely decided as yet, but will probably be on the property of the Spalding mills. Douglas Boyd is Pres.

KNOXVILLE, TENN.—Plans are being prepared for additions to the plant of the Brookside Cotton Mills in this city, and contracts for the work will be let in a short time. The company recently increased its capital stock from $450,000 to $1,000,000, and will expend $500,000 of the increase for the new buildings.

NEW ORLEANS, LA.—The Columbia Copper Co., it is reported, will soon begin the construction of a large copper working plant in this city.

SPRINGFIELD, O.—The Owen Machine Tool Co., whose plant was destroyed by fire some months ago, is preparing to reorganize and increase its capital stock to $100,000 for the erection of a new plant.

YOUNGSTOWN, O.—The contract for the erection of the new continuous furnaces for the local plant of the Republic Iron & Steel Co. has been let to the Morgan Con-

struction Co., Worcester, Mass., and that for the erection of the shafting, pulleys, hangers and other small machinery to Jones & McLaughlin, Pittsburg, Pa.

VINCENNES, IND.—The stockholders of the Enterprise Stove Mfg. Co. have decided to rebuild the plant destroyed by fire. The old plant cost about $100,000.

DETROIT, MICH.—Plans will be prepared by Pollmar & Rosen, Archs., for the new manufacturing plant which the Beals & Selkirk Trunk Co. will erect in this city. The main building will be of brick, three stories high, 245 × 50 ft. A box factory, three stories, 125 × 60 ft.; a dry kiln, 25 × 40 ft., and a power house, 125 × 60 ft., will also be put up. Work will be commenced immediately and will be completed by July 15.

GRAND RAPIDS, MICH.—Ocker & Ford are said to be contemplating the erection of an addition to their factory in Court St., to be 80 × 100 ft. and three stories high.

MILWAUKEE, WIS.—The O. S. Kelly Mfg. Co. will build a plant at South Wiuwaukee for the manufacture of engines, threshers, separators and stackers, employing about 600 hands.

WALNUT RIDGE, ARK.—It is reported that B. B. Harver & Co., Memphis, Tenn., will build a $50,000 cotton mill at this place.

SANTA FE, N. MEX.—The Eagle Mining & Improvement Co. has been incorporated, with a capital stock of $10,000,000, and will erect a large cyanide plant at Parsons, in the Bonite District. Plans have been completed and work will be started within the next 30 days. John M. Rice is Mgr.

BENZON, ARIZ.—The Arizona Clay Mfg. Co.'s plant was recently destroyed by fire, at a loss of about $30,000.

SALT LAKE CITY, UTAH.—The Boston Consolidated Mining Co., of Salt Lake City, will soon erect a compressing plant at its Bingham mines, which will call for the installation of 12 additional machine drills. J. B. Fleming, Mech. Engr., has completed plans for the concentrator to be built for the Lalton & Lark mines owned by the company at Bingham. Robt. J. Coleman is Mgr.——Col. J. H. Conrad, of this city, is arranging for the erection of a hoisting plant on the J. I. C. group, Park City.

MISCELLANEOUS CONTRACTS.

FLOOD DAM.—Waco, Tex.—George Gurley, Cy. Engr., has, according to local press reports, been making estimates for a dam across the Brazos.

CONDUITS.—Richmond, Va.—Bids are asked until June 2 for furnishing materials and laying underground conduits and building manholes. L. S. Jones, Secy., City Hall.

DITCH.—Warren, Minn.—Bids are asked until June 6 for constructing Ditch No. 2 of Marshall county. Estimated cost of said ditch is $27,600. A. B. Nelson, County Audr.

FERRY SERVICE.—Ottawa, Ont.—The Dominion parliament has voted to the Intercolonial Ry. of Canada $247,000 for the improvement of the ferry service at the Strait of Canso.

UNDERGROUND WIRES.—Wilmington, N. C.—An ordinance has been passed granting the Southern Bell Tel. Co. permission to place its wires underground along the principal streets of the city.

COAL TO OIL.—Vallejo, Cal.—Constructor Zahm has been notified that an allowance of $20,000 has been made for the necessary changes at the navy yard in the substitution of oil for coal as a fuel.

DOCK.—Jersey City, N. J.—The Jersey City board of trade has appointed a committee to urge the city officers to take immediate action in regard to erecting a public dock at the foot of Duncan Ave.

DRY-DOCK.—Portland, Ore.—Bids are asked until June 26 for the construction of a floating wooden dry-dock of five sections, as is stated more fully in our advertising columns. E. T. C. Stevens, Clk.

LEVEE.—Memphis, Tenn.—It is reported that the St. Francis Levee District directors are to construct a 17½ mile levee this year between Cat Island and Bledsoe, Ark. The cost of the work is estimated at $50,000.

EXCAVATING.—Beaumont, Tex.—Bids will be received at the office of J. E. Moore, 404 Levy Bldg., Galveston, Tex., for excavating about 17,000 cu. yds. of earth for the Spindle Top Heights reservoir, Beaumont.

MINE SHAFT.—San Francisco, Cal.—It is reported that S. K. Thornton, Supt. Shenandoah Mines, intends to sink the shaft to a depth of 1,000 ft. He will also construct a dam, erect a mill and an electrical power plant.

CREMATORY.—Buffalo, N. Y.—Commissioner of Public Works Ward has recommended the establishment of a municipal crematory for the disposal of the pauper dead. The cost of the crematory is estimated at $17,500.

TELEPHONE SYSTEM.—Los Angeles, Cal.—A local press report states that the Home Telephone Co. proposes to make its capital $3,000,000, and will vote on a proposition to issue $2,500,000 bonds to build the system.

SHEET PILE BULKHEAD.—New York, N. Y.—Bids are asked until June 9 by the Armory Board, 280 Broadway, New York, for furnishing labor and materials for the sheet pile bulkhead in Brooklyn between 51st and 52d Sts.

DREDGING.—Boston, Mass.—Bids are asked by the harbor and land commissioners until June 26 for dredging 1,000 ft. wide and one mile long, anchorage basin in Boston Harbor, as is stated in our advertising columns.

WHARVES, DOCKS, ETC.—Point Richmond, Cal.—It is reported that the Terminal Co. will soon commence the construction of wharves, docks, etc., to cost about $1,000,000. Robert Capell, Pres.; S. Sanborn, Secy., both of San Francisco, Cal.

REGIMENTAL POST.—Salt Lake City, Utah.—A local press report announces that Fort Douglass is to be converted into a regimental post in the next three years, during which time the government will expend $740,000 in improvements.

STEAM HEATING SYSTEM.—Philadelphia, Pa.—Bids are asked until June 7, by the Bureau of Yards and Docks, Washington, D. C., for a steam heating system for the electrical workshop and storehouse at the League Island Navy Yard; estimated cost $6,000.

CANALS.—San Francisco, Cal.—The Stockton & Mokelumne Canal Co. is reported as having made arrangements for the disposal of $110,000 of bonds, the proceeds of which are to be used for the construction of numerous lateral canals and for other improvements.

MECHANICAL EQUIPMENT.—Washington, D. C.—The lowest bid for the mechanical and electrical equipment for the new enginee-room at the bureau of engraving and printing, was that of Edwin Burhorn, 62 Wall St., New York. His bid was $55,000, with 180 days time limit.

CEMENT, MANHOLE COVERS, ETC.—New York, N. Y.—Bids are asked until June 3 for furnishing 750 bbls. Portland cement, 300 bbls. Rosendale cement, 6,125 cu. yds. sand, 400 cast-iron manhole covers and 75 cast-iron manhole heads. Jacob A. Cantor, Pres. Manhattan Boro.

PIER REPAIRS.—New York, N. Y.—The contract for repairing the West 48th St. pier and approaches has been let to Bernard Rolf, for $16,733, and the contract for dredging the North River between the Battery and West 159th St., has been let to Wm. H. Tayler, for 16 cts. a cu. yd.

DRY DOCK.—San Francisco, Cal.—Specifications for a floating dry dock, to be built by the San Francisco Dry Dock Co., have been approved by the harbor commissioners. The docks are to be three in number, and will take the place of the docks at the foot of Spear St. They will cost $280,000, and are to be completed within eight months.

COALING PLANTS.—Bremerton, Wash.—Bids are asked until June 11 by the Bureau of Yards and Docks, Washington, D. C., for the construction of a coaling plant, estimated cost $125,000, at Puget Sound Navy Yard. The work consists of constructing 350 ft. of wharf, two coal sheds, 85 × 200 ft. each; piling, dredging, coal handling machinery, etc.

STEAMSHIP TERMINALS.—New York, N. Y.—Work has been commenced on the proposed steamship terminals to be constructed on the Brooklyn shore of the East River for the Bush Terminal Co. The company owns some 165 acres of land, and it is proposed to construct thereon seven new piers, 1,340 ft. in length, 150 ft. wide, with 250-ft. slips between the piers.

CABLES.—Richmond, Va.—L. S. Jones, Secy. R. F. D., informs us that the following approximate bids were received May 19 for furnishing and placing in underground conduits about 30,000 ft. lead-incased bunched cables: Standard Underground Cable Co., New York, fibre insulation, $8,500; Okonite Co., New York, rubber insulation, $29,000; Safety Insulated Wire & Cable Co., New York, $13,500. The contract was let to the last bidder.

U. S. POSSESSIONS AND CUBA.

COURT HOUSE.—Juneau, Alaska.—Bids will be asked in a few weeks by Marshal Shoup for building a court house in Juneau.

SEWER PIPE.—San Juan, P. R.—Bids are asked until June 20 for furnishing sewer pipe, Ys, etc., as stated in our advertising columns. J. A. Cañals, Cy. Engr.; Manuel Egozcue, Mayor.

GRANITE PAVING BLOCKS.—San Juan, P. R.—Bids are asked until June 23 for furnishing about 1,000,000 granite paving blocks, as stated in our advertising columns. J. A. Canals, Cy. Engr.

CANNERY.—Alaska.—Reports state that Farrell & Tregent, of Vancouver, B. C., will build a cannery at Haines Mission on the Alaska coast.——The Alaska Fisheries Union, of Skagway, proposes to build a cannery at the mouth of the Chilkat Inlet, to cost about $80,000.

RAILWAY.—Alaska.—Reports state that contracts are being let by the Alaska Central R. R. Co., recently incorporated in Olympia, Wash., for a railway between Resurrection Bay and Rampart City, etc., a distance of about 500 miles. W. G. Atwood is Div. Engr.; C. M. Anderson is Ch. Engr., both of Dawson, N. W. Ter., Can.

TUNNEL.—Alaska.—The Juneau-Alaska Mining Co., connected with the Treadwell Mining Co., of Seattle, Wash., is reported as preparing to build a tunnel 11,000 ft. long through the hills opposite Douglas, Alaska, at a cost of $3,000,000. H. H. Douglas, M. E., Northern Hotel, Seattle, Wash., may be able to give information.

RAILROAD.—Alaska.—The Valdez Copper River & Yukon Ry. Co. has been incorporated with a capital of $2,400,000, to build a railway from Valdez, on the Gulf of Alaska, to Eagle City, on the Yukon River, and from the Yukon River to Bering Strait. It is said that John W. Gates, of Chicago; John J. Healy, of Seattle, Wash., and Fred. J. Abbott, of Manchester, Eng., are interested.——The Anglo-Alaskan Construction Co., incorporated in Trenton, N. J., to contract for the construction and equipment of railroads in Alaska, capital $3,500,000, by Thos. S. Barrett and Frederick H. Seward, of New York, and Louis B. Daily, of Jersey City, it is thought, to do the construction work for the Valdez Copper River & Yukon Ry. Co.

FOREIGN CONTRACTS—EXPORT NEWS.

BOOK CASES, ETC.—Egypt.—Bids are asked by the Egyptian Public Works Department, Cairo, until June 30 for furnishing bookcases, etc., for holding 50,000 volumes.

ROLLING STOCK, ETC.—Denmark.—Bids are asked by the Chief Mechanical Engineer, Danish State Rys., Copenhagen, until June 3 for furnishing five express engines, five goods engines, 50 box cars, 100 open goods vans, etc.

WATER-WORKS.—Peru.—Julius A. Arce, C. E., Pizarro 11, Arequippa, Peru, writes us that he is commissioned to import from the U. S. 6,240 ft. of 3-in., 6,300 ft. of 2-in. wrought iron pipe, f. o. b. New York, for the works now being built at Aplao. Send prices by cable, giving cable code. Another work that the council has decided on is the improvement of the Mollendo Water-Works. In connection with this work a new steam pumping plant will be established. It is required to pump a maximum of 210 gallons per min. of filtered water. Water to be lifted 276 ft. through an old 8-in. pipe, 6,500 ft. long. There is no suction lift. Economy of coal is the main condition. Boilers, pump and about 500 water meters will be imported probably from the U. S. Mr. Arce, as the council's engineer, will gladly correspond on this matter with American manufacturers.

CONTRACT PRICES.

FLAGGING.—Hasbrouck Heights, N. J.—G. H. Ramsden, Borough Clk., writes us that the following bids were received May 21, 1902, for furnishing and laying about 13,940 ft. of flagging 4 ft. × 2 ft. 4 ins. × 1.5 ins. on 4-in. sand bed: Patrick Byrne's Son, Hackensack, N. J., 48 cts. per lin. ft.; Stillwell & Huyler, Hackensack, 49 cts.; N. J. Construction Co., Garfield, N. J., 45 cts.

TRUNK SEWER.—Newark, N. J.—The following bids were received May 22 for constructing section 4 of the joint trunk outlet sewer for Newark, Orange, Summit, etc.: Alex. Potter Consult. Engr., 150 Nassau St., New York:

Bids Received at Newark, N. J., May 22, 1902, for Constructing Sec. 4, of Joint Trunk Sewer.

Quantities.		Earle & Dougherty, Jersey City.	Wm. Hanna, East Newark.	David Peoples, Phil-adelphia.	Batt & Martin, South Orange.	Kelly & Kelley, New York.
24-in. pipe sewer, 0 to 6 ft. deep	3,215 lin. ft.	$2.40	$2.75	$2.90	$3.00	$3.30
24-in. " " 6 " 10 " "	6,990 " "	2.56	3.25	3.40	3.75	4.65
24-in. " " 10 " 14 " "	1,390 " "	2.72	3.50	3.80	4.25	4.15
24-in. " " 14 " 18 " "	870 " "	2.88	3.75	4.80	5.65	4.86
24-in. " " 18 " 22 " "	50 " "	3.04	4.00	5.00	6.00	6.81
24-in. cast-iron pipe	396 " "	4.10	7.00	8.00	7.00	7.60
22-in. pipe sewer, 0 to 6 ft. deep	2,310 " "	2.16	2.75	2.75	2.50	3.27
22-in. " " 6 " 10 " "	1,470 " "	2.33	3.25	3.30	3.25	4.09
22-in. " " 10 " 14 " "	530 " "	2.49	3.50	3.70	5.00	5.85
Manholes, under 10 ft. deep	44 each	35.00	40.00	35.00	39.00	35.00
Manholes, 10 to 15 ft. deep	27 "	4.00	4.00	3.50	4.00	10.00
Manholes, 15 " 20 " "	2 "	5.00	4.00	4.00	4.00	10.00
Sheeting left in trench	30 M. ft.	35.00	30.00	30.00	40.00	30.00
Rock excavation	1,000 cu. yds.	3.00	.50	2.00	1.25	1.50
Extra concrete	50 " "	10.00	10.00	8.00	8.00	12.00
Extra brickwork	50 " "	10.00	12.00	12.00	13.00	15.00
Branches on 22-in. pipe	20 each	3.50	2.50	10.50	3.00	4.00
Branches on 24-in. pipe	50 "	4.00	3.00	12.50	3.25	4.00
Asphaltum joints on 22-in. pipe	600 "	.15	.40	.40	.10	.20
Asphaltum joints on 24-in. pipe	1,000 "	.15	.50	.60	.15	.20
6-in. tile drain	1,000 lin. ft.	.60	1.00	.45	.15	.30
Total		$51,225	$61,959	$67,828	$68,870	$75,412

GRADING AND PAVING.—Ann Arbor, Mich.—E. W. Groves, Cy. Engr., writes us that the following bids were received May 21, 1902, for grading, paving and curbing State St.: (1) bid of Lennans Bros., Detroit (accepted); (2) F. H. Liphardt, Detroit; (3) Geo. H. Kneal, Lansing, Mich.; (4) Geo. Clarken, Ann Arbor:

	1.	2.	3.	4.
Excavation ..8,000 cu. yds.	$0.20	$0.25	$0.335	$0.40
Asp. block .13,400 sq. yds.	2.16	2.16	2.175	2.24
Curbing:				
5" Medina. 1,700 lin. ft..	.70	.70	.68	.85
4" Berea . 4,300 " "	.42	.46	.455	.50
Headers .... 500 " "	.30	.40	.40	.45
Total	$32,954	$33,090	$35,137	$37,096

BRICK PAVING.—Wilmington, Del.—The street and sewer department received the following bids May 20, 1902, for about 10,000 sq. yds. of brick paving: The Chas. Warner Co., $1.04½, $1.09, $1.10, $1.20 and $1.26 per sq. yd.; J. Merrick Horn, 90 cts., $1.02, $1.07, $1.08½; Simmons & Bro., 95 cts., 97 cts.; John M. Solomon, 92 cts.; Johnsonburg (Pa.) Vitrified Brick Co., $1.04; Metropolitan Brick Co., Canton, O., $1.14; American Sewer Pipe Co., Pittsburg, Pa., $1.06; T. B. Townsend Brick Co., Zanesville, O., $1.16.

BOILERS.—Minneapolis, Minn.—The following bids were received May 23, 1902, for furnishing four 250-HP. boilers for the new pumping station No. 4: The Stirling Co., Chicago, $10,100; N. W. Steam Boiler Works, Duluth, $19,320 complete; William Bros., Minneapolis, $10,500; C. C. Peck, Rochester, N. Y., $19,260; Robinson & Cary Co., St. Paul, $12,825; Heine Safety Boiler Co., St. Louis, $16,300.

DREDGING.—Boston, Mass.—We are informed that the board of harbor and land commissioners, State House, received the following bids May 22, 1902, for about 114,000 cu. yds. of dredging in South Bay, Boston Harbor; to be dumped at sea: C. M. Cole, 321 Belmont St., Fall River, 27 cts. a cu. yd.; New England Dredging Co., 185 Summer St., Boston, 29½ cts. (23 cts. dumped on flats); Morris & Cummings Dredging Co., 17 State St., New York, 34 cts.; Eastern Dredging Co., 247 Atlantic Ave, Boston, 29¼ cts.; Bay State Dredging Co., 19 High St., Boston, 26 cts.; John C. Cobb., 66 State St., Boston, 28¾ cts. (24¾ cts. dumped on flats).

ASPHALT PAVING.—Benton Harbor, Mich.—C. R. Wightman, Cy. Engr., writes us that the following bids were received May 19, 1902, for about 10,000 yds. of asphalt paving: (1) Barber Asphalt Paving Co.; (2) Western Paving & Supply Co., 153 La Salle St., Chicago; (3) Bermudez Asphalt Paving Co., 100 Washington St., Chicago:

	1.	2.	3.
Sheet asphalt paving ...10,000 sq. yds.	$1.95	$2.05	$1.97
3 × 12-in. white oak headers, a lin. ft..	.26	.15	.23
3-in. stone headers, a lin. ft.	.15	.15	...
Earth excavation, a cu. yd.	.25	.35	.30
Combination curb and gutter, a lin. ft..	.55	.65	.65

DREDGING.—Michigan.—The following bids were received on May 19, 1902, by the U. S. Engineers, Detroit, Mich., for dredging Section 3 of the Little Rapids Division of the Hay Lake Channel, appropriation improving Hay Lake Channel, Sault Ste. Marie River, Mich., excavating 735,500 cu. yds. at full rate, and 51,700 cu. yds. at half rate: Charles Simono, Two Rivers, Wis., 12 cts.; Buffalo (N.Y.) Dredging Co., 15¼ cts.; Duluth (Minn.) Dredge & Dock Co., 15⅝ cts.; W. A. McGillis & Co., Cleveland, O., 15⅝ cts.; Samuel O. Dixon, Milwaukee, Wis., 15.9 cts.; Wm. E. Rooney, Toledo, O., 16 cts.; The L. P. & J. A. Smith Co., Cleveland, O., 16.1 cts.; Lydon & Drews Co., Chicago, 20 cts. For dredging in lower Detroit River, etc., appropriation improvement Detroit River, Mich.; in this operation Breymann & Bros and Rogers & O'Brien (Buffalo), offered to rent their plants for an estimate of 750 hours at $17 and $17.75, respectively; (A) is for work on Lime Kiln Crossing, and (B) for the Amherstburg Beach operation:

Bidders.	A., 3,500 cu. yds.	B., 3,900 cu. yds.
Donnelly Contracting Co., Buffalo	$4.21	.....
M. Sullivan, Detroit	..	$2.90
G. H. Breymann & Bros., Toledo	4.68	..
L. P. & J. A. Smith Co., Cleveland	4.82	4.00
Buffalo Dredging Co., Buffalo	4.95	3.25

LAYING WATER MAINS.—Honolulu, H. I.—The department of public works, Honolulu, received the following bids May 7, 1902, for constructing the Lahaina waterworks: F. J. Amweg, Hawaiian Engineering Co., reservoir, $8,959; laying 10-in. pipe, 30 cts.; 6-in., 25 cts.; 4-in. screw pipe, 20 cts.; 4-in. c.-i. pipe, 22 cts.; 3-in. wrought-iron pipe, 15 cts.; 2-in. wrought-iron pipe, 12 cts.; J. W. Springston, reservoir, $5,405; laying 10-in. pipe, 11 97-100 cts.; 6-in. c.-i. pipe, 11 44-100 cts.; 4-in. c.-i. pipe, 9¾ cts.; 4-in. wrought iron, 9 36-100 cts.; 3-in. wrought iron, 7 8-10 cts.; 2-in. wrought iron 7 15-100 cts.; P. L. Lamar, reservoir, $5,080; laying pipe, $5,919; J. J. Belser, reservoirs, $7,450; laying pipe, $3,310; John Walker, reservoir, $9,000; Emmeluth & Co., reservoir, $4,050; pipe laying, $3,328.

ELECTRIC LIGHTING.—Westerly, R. I.—The following bids were received May 13, 1902, for all-night lighting every day in the year for three and five years: Westerly Gas & Electric Light Co., for Westerly, arc lights, three years, $100 a light; five years, $96; incandescent, $20 and $19; for Watch Hill, incandescent lights, $9 and $8.60. Mystic Gas & Electric Light Co., for Westerly, arc, $87.50 and $85; incandescent, $19.50 and $18.50; for Watch Hill, $10.50 and $9.

BRIDGE PLANKING.—Lawrence, Mass.—The Lawrence Lumber Co. has been awarded the contract, at $18.25 per M. ft., B. M., for furnishing 70,000 ft. of planking for the bridges here. The Union Lumber Co. submitted a bid at $19.50.

PAVING.—Newark, N. J.—The following bids were received May 8, 1902, by the board of street and water commissioners for paving in several streets; Ernest Adam, Engr.: (1) being for 14,730 yds. of Clearfield represed block paving; (2) for Mack repressed block paving; (3) for Mack wire-cut block; (4) for Mack repressed brick; (5) for Mack wire-cut brick; (6) for Porter repressed block; (7) Porter wire-cut block; (8) Porter repressed brick; (9) 600 lin. ft. of 20-in. curb set in concrete; (10) 1,700 ft. of 16-in. curb; (11) 1,900 lin. ft. of old 20-in. curb set in concrete; (12) 2,500 ft. of old 16-in. curb; (13) new basins; (14) manhole; (15) new stand-pipe: J. Roosevelt Shanley, (1) $2.09, (2) $2.14, (3) $2.11, (4) $2, (5) $2.10, (9) 57 cts., (11) 21 cts., (13) $105; Newark Paving Co., (1) $2.19, (2) $2.27, (3) $2.35, (4) $2.31, (5) $2.21, (9) 65 cts., (11) 25 cts., (13) $110; David Harper, (2) $2.40, (3) $2.35, (6) $2.23, (7) $2.20, (8) $2.25, (9) 70 cts., (11) 30 cts., (13) $125; Thos. A. O'Connor, (2) $2.39, (9) 58 cts., (11) 21 cts., (13) $110. Oblong granite block paving in seven streets, (1) being for 15,000 yds. on concrete; (2) for about 19,000 yds. on sand; (3) 2,350 ft. of new 16-in. curb on concrete; (4) 2,500 ft. of new 16-in. curb on sand; (5) 2,825 ft. of old 16-in. curb on concrete; (6) 2,720 ft. of new bridging on concrete; (8) new basins, 8; (9) new manhole; (10) new stand-pipe; (11) replacing manhole heads, 9; (12) replacing basin heads: J. R. Shanley, (1) $2.79, (2) $1.97, $1.99, $2.05, $2.04, (3) 50 cts., (4) 35 cts., (5) 21 cts., (6) 50 cts., (7) 50 cts., (8) $105, (9) $35; David Harper, (1) $2.80, (2) $2, $2.20, $2.15, $2.10, (4) 35 cts., (7) 40 cts.; Newark Paving Co., (1) $2.79, (2) $2.05, $2.15, $2.20, (3) 63 cts., (4) 50 cts., (5) 25 cts., (6) 75 cts., (7) 55 cts., (8) $110, (11) $10; Thos. N. O'Connor, (1) $3.24, (2) $2.16, $2.15, $2.27, $2.28, (3) 52 cts., (4) 36 cts., 35 cts., (5) 21 cts., (6) 55 cts., (7) 48 cts., 45 cts., (8) $110, (9) $40, (10) $12, (11) $15, $12, (12) $35. Sheet asphalt paving in four streets, 9,230 yds., (1) for Trinidad Pitch Lake, (2) for Trinidad asphalt, (3) for new 20-in. curb on concrete, (4) new 16-in. curb on concrete, (5) old 20-in. curb on concrete, (6) old 16-in. curb on concrete, (7) new basins, (8) new manholes, (9) new stand-pipe: Barber Asphalt Paving Co., (1) $1.89, (3) 55 cts., (4) 49 cts., (5) 19 cts., (6) 19 cts., (7) $95, (8) $43, (9) $14; Warner-Quinlan Asphalt Paving Co., (2) $2.02, (3) 65 cts., (4) 55 cts., (5) 30 cts., (6) 25 cts., (7) $95, (8) $43, (9) $15. Brick pavements, price bid includes excavation, 6-in. concrete foundation, 1½-in. sand cushion and sand filler, 5-year guarantee and 5% of cost retained, of which 2% is paid back at end of third year and balance at end of fifth year; asphalt pavements, price bid includes excavation, 6-in. concrete foundation, 1½-in. binder course and 2-in. wearing surface, 10-year guarantee, 5% of cost retained, of which 2% is paid back at end of third year, and balance at end of fifth year. Contractor receives 12½ cts. in addition to the price bid for maintaining the pavement and appurtenances for the record period of five years. Granite pavements, price bid includes excavation, and where on concrete, a filler of gravel and paving mastic, otherwise a sand filler. The same length of guarantee and per cent. retained as in brick pavements.

PIPE SEWERS AND DISPOSAL PLANT.—Ashland, O.—Stoyle & Rollston, of Mount Vernon, O., were awarded the following contract May 13, 1902, for sewers and a sewage disposal plant: Pipe Sewers—7,920 ft. 6-in. pipe, 28 cts.; 65,220 ft. 8-in. pipe, 37 cts.; 5,930 ft. 10-in. pipe, 48 cts.; 3,190 ft. 12-in. pipe, 55 cts.; 3,430 ft. 15-in. pipe, 72 cts. Manholes—2,500 ft. 8-in. c.-i. sewer, 30 cts.; 1,375 ft. 8½-in. walls, $2.47. Flush Tanks—33 flush tanks, $25 each. Lumber—20,000 ft., $20. Concrete—50 cu. yds., $3.50. Shale Excavation—2,000 cu. yds., 55 cts. Sand Rock—750 cu. yds., $1.50. Relaying Brick Sidewalks—4,640 ft., 12 cts. Relaying Flagstone Sidewalks—6,000 ft., 15 cts. Relaying Brick Roadway Pavement—3,300 ft., 10 cts. Relaying Macadam Pavement—780 ft., 3 cts. Disposal Plant—Earth excavation, 1,000 yds., 19 cts.; gravel and sand, 5,000 yds., 19 cts.; 4-in. tile laid, 4,000 ft., 10 cts.; 3-in. tile laid, 4,000 ft., 10 cts. Sewer Lines—8-in. sewer pipe laid, 440 ft., 30 cts.; 10-in. sewer pipe laid, 380 ft., 36 cts.; 6-in. sewer pipe laid, 60 ft., 22 cts. Earthwork ditches, per foot, 2,000 ft., 5 cts.; 15-in. sewer pipe laid, 400 ft., 72 cts.; 12-in. sewer pipe laid, 500 ft., 55 cts.; brick masonry, 3,000 cu. ft., 40 cts. Manholes—10 with 8½-in. walls, $2.47; 36, with 4-in. walls, $2. Other items—Brick floor, 125 sq. yds., $1; iron pipe, 60 ft., 25 cts. Total, $4,729.

LEVEE WORK.—Baton Rouge, La.—The state board of engineers, New Orleans, received the following bids April 30, 1902, for 232,000 cu. yds. of levee work in the parish of East Baton Rouge: G. Y. Andrews, 24.75 cts.; T. T. Clark, 19.70 cts.; Helgerson Bros., 20.90 cts.; Bobbitt & Linnan, 22.69 cts.; Batt O'Brien, 22 cts.; J. K. Jeffress & Son, 18.50 cts. (recommended to the governor for acceptance). Donovan & Daly have been awarded the contract for Secs. 1 and 2 of the upper Bougere levee, at 16.71 cts., total, $33,400; and Ogden Bros. have the contract for section 3 at 31.46 cts., total $31,460.

RELOCATING RAILWAY TRACKS.—Boston, Mass.—The Metropolitan Water and Sewerage Board received the following bids May 20, 1902, for relocating the railway tracks of the Central Massachusetts Division of the B. & M. R. R., Berlin and Clinton, for work in connection with the Wachusett Reservoir:

Bids Received at Boston, Mass., May 20, 1902, for Relocating Railway Tracks; Boston & Maine R. R.

Quantities.		Crary Construction Co., New York.	T. Henry Meegan, Stoneham.	Cendella Bros., Milford.	P. H. Fitzgerald, New London.	Wm. J. McCarthy, Somerville.	T. H. Gill, Somerville.	Latta & Terry Co., Philadelphia.	A. Carberry & Sons, E. Walpole.	Long & Little, Leominster.	Bruno, Salomone, & Petitti, East Boston.	Murphy & Gallagher, Clinton.	Lawler Bros., Charlestown, Mass.
Earth excavation	21,000 cu. yds.	$0.32	$0.27	$0.34	$0.34	$0.30	$0.35	$0.45	$0.45	$0.35	$0.45	$0.50	$0.60
Borrowed earth	31,000 " "	.30	.27	.29	.34	.37	.40	.41	.45	.42	.40	.50	.55
Rock excavation	12,500 " "	1.00	1.325	1.25	1.20	1.45	1.50	1.80	1.75	1.90	1.85	2.00	5.00
Overhaul, equivalent to 20,000 yds. hauled	100 ft.	.01	.01	.01	.01	.02	.01	.01½	.01½	.01	.01½	.01	.05
Portland cem't concrete masonry (1:2½:5)	550 cu. yds.	7.50	6.25	6.00	7.90	5.00	6.50	7.00	8.00	7.00	6.50	7.50	7.00
Portland cem't concrete masonry (1:3:6)	300 " "	5.50	5.75	5.50	7.48	4.50	7.50	6.50	7.00	7.00	6.00	7.00	6.75
Split stone masonry laid in mortar	95 " "	13.50	7.75	17.00	18.00	15.00	17.00	18.00	12.00	18.00	35.00	12.00	8.00
Dimension stone masonry laid in mortar	30 " "	20.00	18.00	25.00	26.00	22.00	70.00	30.00	20.00	45.00	45.00	18.00	24.00
Face dressing of rough pointed work	600 sq. ft.	.40	.40	.30	.40	2.00	.50	.60	.60	1.00	.25	.25	.75
Dry rubble stone masonry and paving	60 cu. yds.	2.50	3.50	2.50	4.00	3.00	5.00	5.00	3.00	3.50	8.00	6.00	5.00
Total		$36,768	$37,691	$39,600	$42,439	$43,860	$48,840	$54,030	$54,055	$54,140	$55,955	$59,615	$101,255

SEWER PIPE.

SAN JUAN, P. R., May 20, 1902.

Sealed proposals, in duplicate, will be received at the office of the Mayor and Board of Aldermen of the City of San Juan, Puerto Rico, until 5 p.m. of the 20th of June, 1902, for furnishing and delivering upon the wharf at San Juan, Puerto Rico, about

2,800 ft. 8-in. vitrified salt-glazed sewer pipe,
4,800 " 10-in. " " " " "
1,300 " 12-in. " " " " "
100 Y-pieces 8 × 6-in. branch,
200 " 10 × 6-in. "
50 " 12 × 6-in. "

All pipes and fittings shall be of first commercial class, vitrified salt-glazed, sound and well burned throughout their thickness, impervious to moisture, of smooth and well glazed exterior and interior surfaces, free from cracks, flaws, blisters, fire checks and all other imperfections, circular in the bore, of true form in their lengths whether straight or curved, internally of the exact specified diameter and no less than one-twelfth of the diameter in uniform thickness.

All pipes shall be socket pipe with true and circular socket concentric with the bore of the pipe, and shall be furnished in pieces two and one-half feet long.

The total number of pipes and fittings must be delivered within four weeks after due notice by cable has been given to the successful bidder that the contract has been awarded to him.

Payment will be made two weeks after the delivery of the material upon the wharf at San Juan, after the total number of pipes and fittings contracted for shall have been inspected and accepted by the City Engineer or his authorized representative.

Each proposal must be accompanied by a certified check for three hundred ($300) dollars, payable to the Mayor of the City of San Juan, said check to be returned to the bidder unless he fail to execute the contract, should it be awarded to him.

The Board of Aldermen reserves the right to reject any or all bids.

MANUEL EGOZCUE, Mayor.
J. A. CANALS, City Engineer. 22-1t

GRANITE PAVING BLOCKS.

CITY OF SAN JUAN, PUERTO RICO, SAN JUAN, P. R., May 15, 1902.

Sealed proposals will be received at the office of the Mayor and Board of Aldermen of the City of San Juan, Puerto Rico, until 5 p.m., of the 23d of June, 1902, for furnishing and delivering at San Juan, Puerto Rico, from seven hundred thousand (700,000) to one million (1,000,000) Granite Paving Blocks.

Specifications and blank forms will be furnished on application to J. M. Ceballos & Co., Lord's Court Building, 27 William St., New York city, U. S.

The Board of Aldermen reserves the right to reject any or all bids, also to award the contract upon other considerations than the price.

MANUEL EGOZCUE, Mayor.
J. A. CANALS, City Engineer. 22-1t

GRAVEL ROAD.

ATLANTIC COUNTY, N. J., May 19, 1902.

Sealed proposals will be received by the Board of Chosen Freeholders of the County of Atlantic, at Memorial Hall, Atlantic City, N. J. on Wednesday, June 11, 1902, at 11:30 a.m., for the construction of a Gravel Road from Absecon to Chestnut Neck, a distance of about 11 miles, more or less. Specifications can be seen at the residence of Edwin Robinson, Absecon, or can be had upon application to John C. Anderson, Clerk of the Board, Hammonton, N. J., or John J. Albertson, Engr., Magnolia, N. J. A certified check or approved bond in the sum of one thousand dollars must accompany each bid. The Board reserves the right to reject any or all bids.

FRED. SCHUCHARDT, Director,
21-3t Egg Harbor City, N. J.
JOHN J. ALBERTSON, Engr., Magnolia, N.J

COURT HOUSE.

OFFICES OF ACKERMAN & ROSS, ARCHITECTS, 156 FIFTH AVENUE, NEW YORK CITY, May 27, 1903.

Sealed proposals for the construction of the Union County Court House on the northwest corner of Broad St. and Rahway Ave., Elizabeth, New Jersey, will be received at this office until 12 o'clock noon, on the 23d day of June, 1902.

Plans, specifications and blank forms for proposals may be obtained upon application therefor, at the office of the Architects, 156 Fifth Ave., New York City.

The right is reserved to reject any or all bids.

E. N. WOOD,
22-4t County Collector.

PAVING.

GENEVA, N. Y.

Sealed proposals will be received by the Board of Public Works up to 10 a.m., June 12th, 1902, for about 12,000 cu. yds. of excavation; 11,000 lin. ft. of 4-in. Medina curb, set in concrete; 4,000 lin. ft. of 12 to 15-in. drain tile; 30 catchbasins, 8,000 sq. yds. of macadam, and 10,000 sq. yds. of brick pavement, laid on concrete.

Specifications may be had on application at the office of the Board.

W. S. WOOD, Clerk.
Geneva, N. Y., May 26, 1902. 22-1t

BRICK PAVING.

CITY CLERK'S OFFICE, BINGHAMTON, N. Y., May 15, 1902.

Notice of Reception of Proposals for Pavement on Clinton St.

Notice is hereby given that sealed proposals for paving Clinton St. from Front St. to the east curb line of Crandall St., in accordance with the specifications prepared by the city engineer and now on file in the City Clerk's Office, will be received by the Common Council of the City of Binghamton, N.Y., until 5 o'clock p.m., June 3, 1902.

Proposals will be received by said Common Council for Paving with Vitrified Brick, and each bidder will be required to state in his proposal the kind of brick which he proposes to use. Bidders will be required to state, separately, price on both broken stone and gravel concrete.

The successful bidder shall agree that if from cause the work specified shall not be fully completed within the time specified, it shall be optional with the City to stop the work at any time after the time fixed by the specifications for completion and the contractor shall, in such case, complete said work when directed in the spring of 1903, and each bidder shall insert such agreement in his proposal.

Blank forms for proposals may be obtained of the City Clerk at his office.

The Council reserves the right to reject any or all bids.

I. C. HULL,
21-2t City Clerk.

MAIN SEWER.

COMMONWEALTH OF MASSACHUSETTS, METROPOLITAN SEWERAGE WORKS.

Sealed proposals will be received at the office of the Metropolitan Water and Sewerage Board, 1 Ashburton Place, Boston, Mass., until 2:30 o'clock p.m., of Thursday, June 12, 1902, for building part of Section 49 of the High-Level Sewer, in Quincy, in accordance with the form of contract and specifications to be furnished by the Board. All bids must be made on the blank forms furnished by the Board. Some particulars are estimated to be as follows: Length, 1,498 lin. ft.; average cut, 15 ft.; inside diameter of sewer, 135 × 150 ins. The section will also involve the furnishing and driving of 50,000 lin. ft. of spruce piles. Plans can be seen and specifications and form of contract can be obtained at the above office, or at the office of the Engineering Department, Pemberton Building, Boston, Mass. The Board reserves the right to reject any or all bids. HENRY H. SPRAGUE, HENRY P. WALCOTT and JAMES A. BAILEY, JR., Metropolitan Water and Sewerage Board. WILLIAM M. BROWN, Engineer Sewerage Works. WILLIAM N. DAVENPORT, Secretary. 22-1t

WATER-WORKS IMPROVEMENTS.

RIDGWAY, PA.

Sealed bids will be received by the Town Council of the Borough of Ridgway, Pa., until 8 o'clock p.m. Thursday, June 5th, 1902, for furnishing the material and performing the work in connection with improvements to the Water-Works System of said Borough.

The work contemplated is as follows:

1. Constructing a Concrete Reservoir 70 ft. in diameter, and 12 ft. deep;
2. Furnishing and erecting Two Triplex Power Pumps, having a capacity of at least 300 galls. per min. each, when running at a speed of 50 revolutions per min., against a static head of 200 ft.;
3. Two 20-HP. Gas Engines with gasoline attachments;
4. Brick Pumping Station.

Each bid must be accompanied with a certified check for an amount equal to 2% of the amount of the bid. Bids shall be addressed to W. W. Barbour, Secretary of the Council, Ridgway, Pa. Plans and specifications may be seen on and after June 1st, 1902, at the office of said Secretary or at the office of the Engineer, J. F. Witmer, Chapin Block, Buffalo, N. Y.

The right is reserved to reject any and all bids.

W. W. BARBOUR,
22-1t Secretary of Town Council.

BRICK PAVING—GRANITE CURB.

ALEXANDRIA, VA., May 28, 1902.

Proposals will be received at the office of the City Engineer until noon, June 12, 1902, for about 8,700 sq. yds. of Vitrified Block Paving on a 6-in. concrete base; and about 4,500 lin. ft. of 6-in. Granite Curb set in concrete, on King St., from Royal to Fayette St.

Specifications, conditions, etc., can be had at the City Engineer's Office. The right is reserved to reject any or all bids and to extend the time of receiving the same.

E. C. DUNN,
22-2t City Engineer.

PROPOSALS FOR THE CONSTRUCTION and Repair of Sewers.—Office of the Commissioners, D. C., Washington, D. C., May 20, 1902.—Sealed proposals will be received at this office until 12 o'clock m., June 14, 1902, for constructing and repairing Sewers in the District of Columbia. Specifications and blank forms of proposals may be obtained at this office. The right is reserved to reject any and all bids or parts of bids. HENRY B. F. MACFARLAND, JOHN W. ROSS, JOHN BIDDLE, Commissioners, D. C. 22-1t

TURN TO PAGES XXIV-V

The New Advertisements on Pages XXIV-XXV ("Wants") and Pages XXVI-XXIX ("For Sale") May Interest You

THEY GROW——Possibly They Bring Results——TRY THEM

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